

# FLOPET

Denne rapport  
tilhører



L&U DOK. SENTER

L. NR. 20088360009

KODE Well 31/2-12 nr 7

Returneres etter bruk

## HIGH ACCURACY PRESSURE TEMPERATURE MEASUREMENTS

Company :	SHELL	Country :	NORWAY
Field :	TROLL	Well :	31/2-12
Zone :	UPPER JURASSIC	Date :	30/7 - 1/8.1983

# FLOPETROL

DISTRICT : NSD  
BASE : NWB  
REPORT No. : ELS 83/45

## HIGH ACCURACY PRESSURE TEMPERATURE MEASUREMENTS

Company : SHELL                      Country : NORWAY  
Field : TROLL                          Well : 31/2-12  
Zone : UPPER JURASSIC              Date : 30/7 - 1/8.1983

# FLOPETROL

Client : SHELL  
Field : TROLL  
Well : 31/2-12

Section INDEX

Base: NWB

Report No: ELS 83/45

## INDEX

- MEASUREMENT PLOTS
- MEASUREMENT DATA
- SEQUENCE OF EVENTS
- WELL COMPLETION DATA
- LISTING OF ALL DATA RECORDED
- 
- 

Flop petrol operator:

GEIR-OLE EIKEMO

Company representative:

GUSTAV RUNDGREN

# FLOPETROL

Client : SHELL

Section :

Field : TROLL

Page : 1

Base: NWB

Well : 31/2-12

Report No. ELS 83/45

## SEQUENCE OF EVENTS

DATE	TIME	OPERATION
	06:00	Rig up wire line.
	06:48	Power on SDR 82101.
	06:51	Operation verified.
	08:15	Pressure test to 3000 psi.
	08:25	Test ok. Break up lubricator. Hung on gauges.
	08:45	Lub on. Equalise pressure
	08:55	Open master valve.
	09:00	Gauges suspected to have dropped off.
	09:10	Close master and bleed off pressure. Break lubricator.
	09:30	Rig down to make new rope socket.
30.07.83	12:09	Connect lubricator sections on flowhead.
	12:10	Pressure test lubricator to 3000 psi - leak
	12:16	Disconnect lubricator sections for repair.
	12:33	Connect lubricator sections on Flowhead
	12:37	Pressure test lubricator to 3000 psi - leak.
	12:40	Disconnect lubricator sections for repair.
	12:50	Connect lubricator sections on flow-head.
	12:55	Pressure test lubricator to 3000 psi - leak.
	13:00	Rig down lubricator sections to take off the bottom one.
	13:40	Pressure test lubricator to 3000 psi - ok.
	13:50	Rig-up lubricator sections on top flowhead.
	13:58	Pressure test lubricator to 3000 psi - ok
	14:08	Bleed off pressure to 2000 psi.
	14:11	Open master valve - safety cap on.
	14:12	Start to R.I.H. with wireline and fishing tool.

# FLOPETROL

## SEQUENCE OF EVENTS (Continuation)

Section :

Page : 2

Report No. ELS 83/45

DATE	TIME	OPERATION
	14:12	Arrive on top of fish.
		Start to P.O.O.H.
	15:12	Wireline sting in lubricator sections.
	15:14	Close master valve.
	15:20	Bleed-off pressure in lubricator
	15:28	Disconnect lubricator.
	15:30	Wireline string out.
	16:20	Reconnect lubricator with string inside.
	16:30	Close swab valve.
	16:45	Open master valve.
	16:49	Open through choke manifold I on 24/64"Adj.
	16:55	Increase to 32/64" Adj.
	16:58	Increase to 48/64" Adj.
	17:02	Increase to 54/64" fixed choke.
	17:35	Increase to 64/64 fixed + 32/64 Adj.
	18:30	Close the well at choke manifold.
	18:44	Open swab valve.
	18:45	Close wing valve.
	18:46	Bleed off pressure up to choke manifold.
	18:46	Start to R.I.H. with wireline to tag fish.
	19:28	Wireline string at surface.
	19:30	Close swab valve.
	19:34	Close lubricator valve.
	19:35	Disconnect lubricator sections.
	19:42	Power on SSSDR 81057.
	19:45	Op. verified.
	19:49	Open wing valve.
	19:52	Bleed of pressure above lubricator.
	20:35	Open swab valve.
	21:03	Gauges in lubricator.

# FLOPETROL

## SEQUENCE OF EVENTS (Continuation)

Section :  
Page : 3  
Report No. ELS 83/45

DATE	TIME	OPERATION
	21:18	Start pressure test lubricator sections.
	21:36	Leak observe in connection above B.O.P. - Bleed off.
	22:10	Pressure test luoricator sections.
	22:15	Leak observe in connection above B.O.P. - Bleed off.
	22:26	Rigged down lubricator sections - take off bottom section.
	22:34	Close swab valve.
	22:46	Open swab valve.
	22:50	Gauges in lubricator - start pressure test.
	23:20	Start to R.I.H with gauges.
31.07.83	00:15	Set gauges - P.O.O.H.
	00:50	Wire line in lubricator.
	01:03	Well opened on 24/64th adj. choke to flare.
	01:08	Increase choke to 32/64th adj.
	01:11	Increase choke to 48/64th Adj.
	02:42	Decrease choke to 4 0/64" fixed choke.
	05:45	Change choke to 48/64 Adjustable.
	05:55	Change choke to 48/64 fixed.
	06:45	Change choke to 48/64 Adjustable.
	06:58	Change choke to 54/64 fixed.
	08:12	Change choke to 64/64 fixed.
	12:12	Change choke to 1" adjustable choke on manifold II.
	12:15	Change choke to 1" 1/2 fixe
	12:18	Decrease choke to 1" 1/4 Adjustable
	12:23	Change choke to 1" 1/4 fixe
	15:30	Increase choke to 1" 1/2 Adjustable.
	15:34	Change choke to 1" 1/2 fixe
	18:30	Close the well at master valve and lubricator valve.
	18:45	Prepare wire line
		Wireline string in lubricator section.
	19:20	Close wing valve.

# FLOPETROL

## SEQUENCE OF EVENTS (Continuation)

Section :

Page : 4

Report No.: ELS 83/45

DATE	TIME	OPERATION
	19:30	Pressure test lubricator sections
	19:35	Open wing valve.
	19:39	Close wing valve and swab valve.
	19:40	Open lubricator valve.
	19:43	Open master valve.
	19:45	Open swab valve.
	19:46	Safety cap on master valve.
	19:47	Start to R.I.H. with wire line.
		Did not manage to get the gauges - P.O.O.H.
	20:30	Tools in lubricator.
	20:32	Close swab valve.
	20:40	Tools out of lubricator - change for a Jar Down fishing tool.
	20:51	Tools in lubricator.
	20:53	Open swab valve.
	20:56	Start to R.I.H. with wireline.
		Did not manage to get the gauges - shear pin - P.O.O.H.
	21:30	Tools in lubricator.
	21:34	Close swab valve.
	21:37	Tool out of lubricator - add up an hydraulic jar.
	21:45	Close master valve.
	21:49	Tools in lubricator
	21:50	Open swab valve.
	22:00	Pressure test lubricator - ok
	22:00	Open wing valve - water off
	22:04	Close swab valve
	22:07	Close wing valve - open master valve - safety cap on
	22:10	Open swab valve
	22:11	Start to R.I.H. with wire line to retrieve gauges.
	23:42	Wire line on surface. No gauges.
	23:43	Close swab valve.

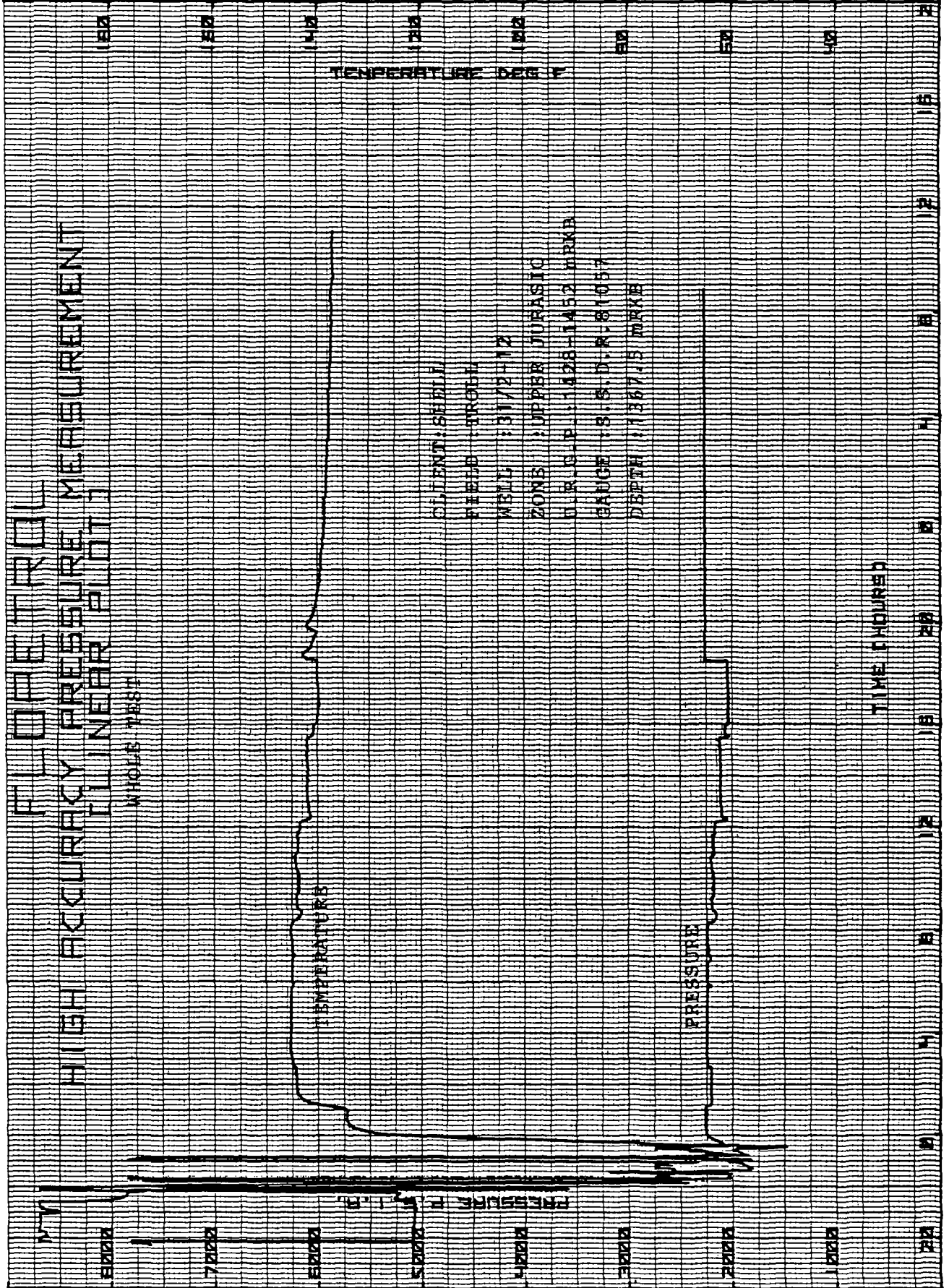
# FLOPETROL

## SEQUENCE OF EVENTS (Continuation)

Section :  
Page : 5  
Report No. : EIS 83/45

DATE	TIME	OPERATION
	23:45	Rig down wire line lubricator. Charge tools.
01.08.83	00:45	Rig up wire line.
	00:47	Close master valve.
	00:48	Open flowline to bleed off.
	00:49	Close flow valve to open swab valve.
	00:50	Pressure test lub. section to 3000 PSI.
	01:00	Test ok. Bleed down pressure through flowline.
	01:10	Close flowline. Close swab valve.
	01:85	Open master valve.
	01:17	Open swab valve to R.I.H.
	01:20	Fit safety cap on Master.
	01:25	R.I.H. to retrieve gauges.
	02:28	On surface. No gauges.
	02:31	Master valve closed.
	02:45	Start to rig down lubricator to rig up 3/16 wire.
	03:00	Start to make new rope socket and start to rig up 3/16" equipment.
	04:50	3/16" rigged up. Tools in lub section.
	05:30	Close flow line.
	05:35	Pressure test lub to 3000 PSI. Leak. Repair master valve suspected to leak.
	06:00	Master valve leaking.
	07:15	Function master valve.
	08:15	Open master valve. Fit safety cap.
	08:20	R.I.H. to retrieve gauges.
	09:10	On surface. No gauges. Reset tool.
	09:55	R.I.H. to retrieve gauges.
	10:16	At depth. Tag on top of gauges. Gauges drop by 43 ft.
	10:30	P.O.O.H.
	10:50	In lubricator. Close master valve bleed off.





FLUORESCENT  
HIGH ACCURACY PRESSURE MEASUREMENT  
FILM NEAR PLUG

WATER TEST

CLIENT: SEBLE  
FIELD: TROTH  
WELL: 3172-12  
ZONE: UPPER JURASSIC  
O.R.D.P.: 1528-1452 DRKB  
GAUGE: S.S.D.A.-81057  
DEPTH: 1367.5 MKB

FLUID FLOW  
 HIGH MERCURY PRESSURE MEASUREMENT  
 NEAR PIT

MAIN FLOW

TEMPERATURE

PRESSURE

CUSTOMER SPEC

FIELD POINT

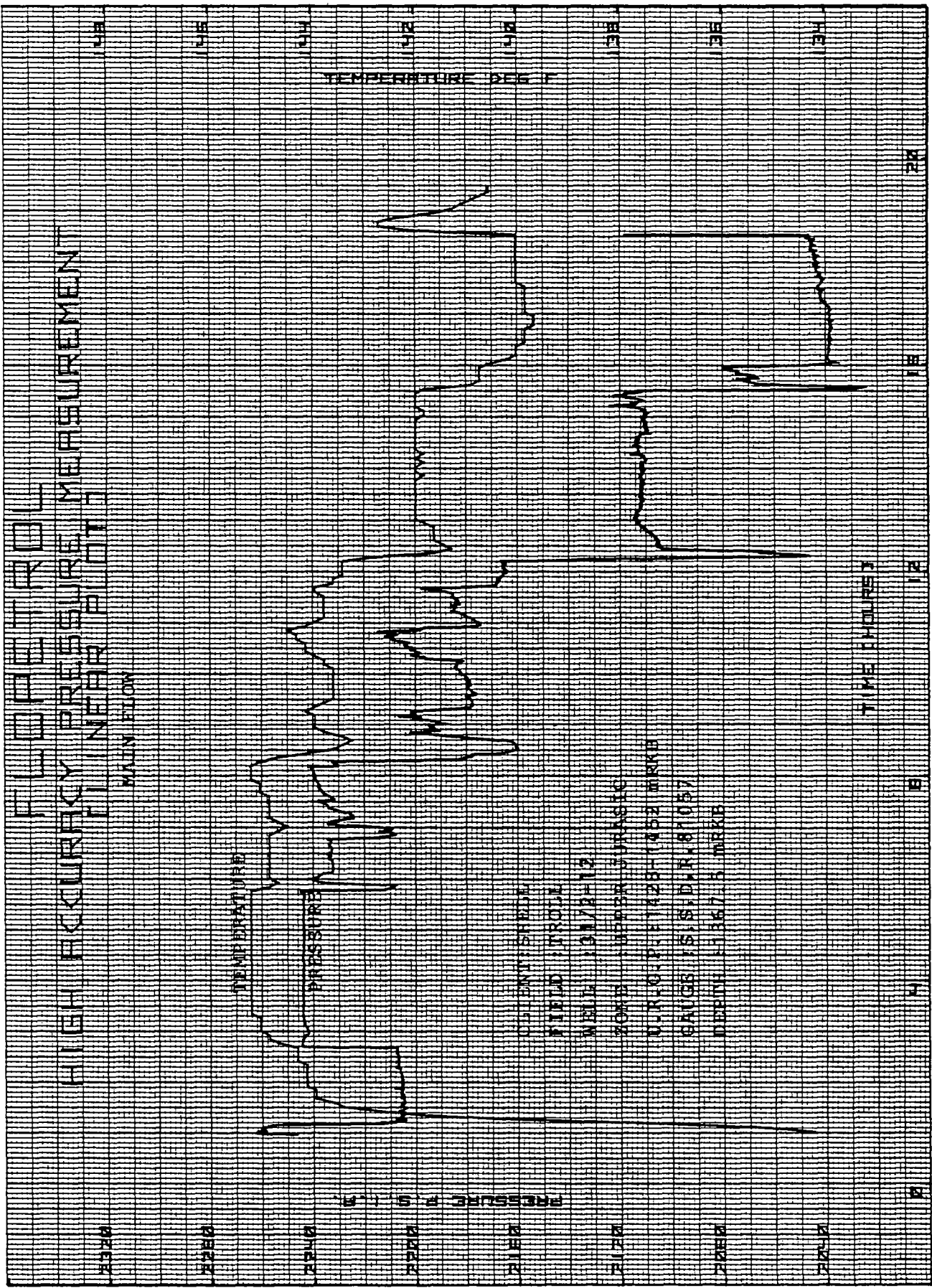
DATE 10/22/72

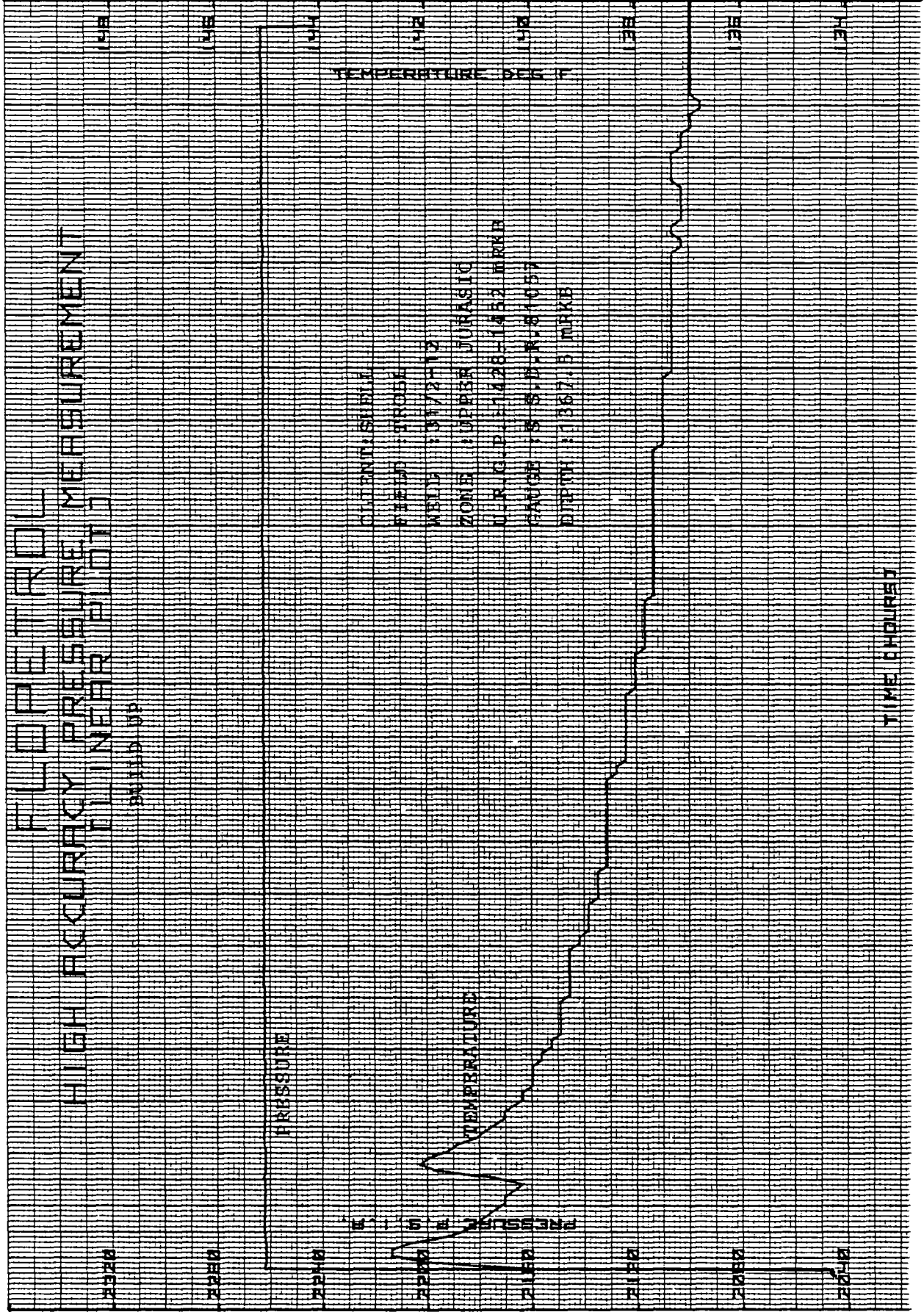
ZONE UPPER SURFACE

CURVE # 128-1052 MARK

GAUGE 1518-D.R. 81057

DEPTH 1367.5 MARK





FLUORÉOL  
PRESSION & TEMPERATURE CALCULATIONS

SECTION 2  
PAGE 1

REMARKS

PIPE PRESS. TEMP. DEL.T. LOG DEL.T. DEL.P. LOG DEL.F

IK, IN. SS PSIA DEG.F (HOURS) PSIA

19.45.0	7639.76									
19.50.0	7604.70									
19.55.0	5088.14									
20.0.0	5088.37									
20.5.0	5088.45									
20.10.0	5087.93									
20.15.0	5088.23									
20.20.0	5087.69									
20.25.0	5088.86									
20.30.0	5086.43									
20.35.0	5081.71									
20.40.0	5065.90									
20.45.0	5064.70									
20.50.0	5083.83									
20.55.0	5083.24									
21.0.0	5083.50									
21.5.0	5069.84									
21.10.0	5092.05									
21.15.0	5031.71									
21.20.0	5071.84									
21.25.0	5081.67									
21.30.0	5250.71									
21.35.0	5252.86									
21.40.0	5245.25									
21.45.0	5255.31									
21.50.0	6481.56									
21.55.0	3979.99									
22.0.0	5121.45									
22.5.0	5096.55									
22.10.0	6049.37									
22.15.0	7352.31									
22.20.0	2727.95									
22.25.0	2679.30									
22.30.0	2569.77									
22.35.0	2570.05									
22.40.0	2556.50									
22.45.0	2711.79									
22.50.0	2736.94									
22.55.0	2674.26									
23.0.0	7630.44									
23.5.0	7712.85									
23.10.0	2674.09									

30/07.1983

5

6

9

10

11

12

13

WELL TEMPERATURE CALCULATIONS

SECTION 2  
PAGE 2

REMARKS

LOG DEL.P

DEL.P  
PSIA

DEL.T  
(HOURS)

TEMP.  
DEG.F

TIME	PRESS.	PSIA	DEL.T	DEL.P	PSIA	LOG DEL.P	DEL.P	PSIA	TEMP.	DEG.F
23:15:00	2023.44									
23:20:00	2201.23									
23:25:00	2409.41									
23:30:00	2674.48									
23:35:00	2677.87									
23:40:00	2087.31									
23:45:00	2118.32									
23:50:00	2168.54									
23:55:00	2221.43									
24:00:00	2239.24									
24:00:00	2239.24									
0:05:00	2247.25									
0:10:00	2250.44									
0:15:00	2244.30									
0:20:00	2256.24									
0:25:00	2258.20									
0:30:00	2256.55									
0:35:00	2251.56									
0:40:00	2261.31									
0:45:00	2258.85									
0:50:00	2250.22									
0:55:00	2246.27									
1:00:00	2258.11									
1:00:30	2261.99									
1:01:00	2262.49									
1:01:30	2262.47									
1:02:00	2262.30									
1:02:30	2262.03									
1:03:00	2258.59									
1:03:30	2259.93		0.0083	-2.0792	2.10	0.3222				
1:04:00	2250.26		0.0167	-1.7782	1.77	0.2480				
1:04:30	2258.94		0.0250	-1.6021	3.09	0.4900				
1:05:00	2260.61		0.0333	-1.4771	1.42	0.1523				
1:05:30	2260.61		0.0417	-1.3802	1.42	0.1523				
1:06:00	2260.44		0.0500	-1.3010	1.59	0.2014				
1:06:30	2260.38		0.0583	-1.2341	1.65	0.2175				
1:07:00	2260.31		0.0667	-1.1761	1.72	0.2355				
1:07:30	2259.61		0.0750	-1.1249	2.42	0.3838				
1:08:00	2258.05		0.0833	-1.0792	3.98	0.5999				
1:08:30	2257.62		0.0917	-1.0378	4.41	0.6444				
1:09:00	2257.35		0.1000	-1.0000	4.68	0.6702				
1:09:30	2257.17		0.1083	-0.9652	4.86	0.6866				

31/07.1983  
AT DEPTH  
1367.5 m

WELL OPENED  
1. 3. 0

SHUT IN PRES.  
2262.03

OPEN ON 24/64"  
ADJ. CHOKE

CHANGE TO 82/64"  
ADJ. CHOKE

FLOPETROL  
PRESSURE & TEMPERATURE CALCULATIONS

REMARKS

TIME PRESS. PSIA DEL.T. DEG.F ICG DEL.T. DEL.P. PSIA ILLG DEL.P.

1.10.0	2256.84	0.1167	-0.9331	5.19	0.7152
1.10.30	2251.74	0.1250	-0.9031	10.29	1.0124
1.11.0	2229.15	0.1333	-0.8751	32.88	1.5169
1.11.30	2218.69	0.1417	-0.8487	43.34	1.6369
1.12.0	2212.98	0.1500	-0.8239	49.05	1.6906
1.12.30	2211.87	0.1583	-0.8004	50.16	1.7004
1.13.0	2207.98	0.1667	-0.7762	54.05	1.7328
1.13.30	2213.76	0.1750	-0.7570	48.27	1.6837
1.14.0	2209.01	0.1833	-0.7368	53.02	1.7244
1.14.30	2205.83	0.1917	-0.7175	56.20	1.7497
1.15.0	2204.55	0.2000	-0.6990	57.48	1.7595
1.15.30	2204.20	0.2083	-0.6812	57.83	1.7622
1.16.0	2204.39	0.2167	-0.6642	57.64	1.7607
1.16.30	2204.35	0.2250	-0.6478	57.68	1.7610
1.17.0	2207.98	0.2333	-0.6320	54.05	1.7328
1.17.30	2207.21	0.2417	-0.6168	54.82	1.7389
1.18.0	2205.20	0.2500	-0.6021	56.83	1.7546
1.18.30	2204.36	0.2583	-0.5878	57.67	1.7609
1.19.0	2206.40	0.2667	-0.5740	55.63	1.7453
1.19.30	2206.40	0.2750	-0.5607	55.63	1.7453
1.20.0	2205.84	0.2833	-0.5477	56.19	1.7497
1.20.30	2205.26	0.2917	-0.5351	56.77	1.7541
1.21.0	2204.99	0.3000	-0.5229	57.04	1.7562
1.21.30	2204.85	0.3083	-0.5110	57.18	1.7572
1.22.0	2205.92	0.3167	-0.4994	56.11	1.7490
1.22.30	2204.54	0.3250	-0.4881	57.49	1.7596
1.23.0	2204.74	0.3333	-0.4771	57.29	1.7581
1.23.30	2204.79	0.3417	-0.4664	57.24	1.7577
1.24.0	2204.66	0.3500	-0.4559	57.37	1.7587
1.24.30	2204.48	0.3583	-0.4457	57.55	1.7600
1.25.0	2205.24	0.3667	-0.4357	56.79	1.7543
1.25.30	2204.67	0.3750	-0.4260	57.36	1.7586
1.26.0	2205.83	0.3833	-0.4164	56.20	1.7497
1.26.30	2206.98	0.3917	-0.4071	55.05	1.7408
1.27.0	2206.45	0.4000	-0.3979	55.58	1.7449
1.27.30	2205.68	0.4083	-0.3890	56.35	1.7509
1.28.0	2204.84	0.4167	-0.3802	57.19	1.7573
1.28.30	2204.52	0.4250	-0.3716	57.51	1.7597
1.29.0	2204.48	0.4333	-0.3632	57.55	1.7600
1.29.30	2204.82	0.4417	-0.3549	57.21	1.7575
1.30.0	2204.28	0.4500	-0.3468	57.75	1.7616
1.30.30	2203.78	0.4583	-0.3388	58.25	1.7653

CHANGE TO 48/64" ADJ.  
CHOKE.

FLOPETROL  
PRESSURE & TEMPERATURE CALCULATIONS

REMARKS

LOG DEL.P

LOG DEL.T DEL.P

PSIA

DEL.T

(HOURS)

TEMP.

DEG.F

PRESS.

PSIA

TIME

HR:MN:SS

TIME	HR:MN:SS	PRESS. PSIA	TEMP. DEG.F	DEL.T (HOURS)	LOG DEL.T	DEL.P	LOG DEL.P	REMARKS
1.31.0	0	2204.06		0.4667	-0.3310	57.97	1.7632	
1.31.30		2206.45		0.4750	-0.3233	55.58	1.7449	
1.32.0		2205.22		0.4633	-0.3158	56.81	1.7544	
1.32.30		2205.32		0.4917	-0.3083	56.71	1.7537	
1.33.0		2205.71		0.5000	-0.3010	56.32	1.7507	
1.33.30		2205.37		0.5063	-0.2939	56.66	1.7533	
1.34.0		2205.46		0.5167	-0.2868	56.55	1.7524	
1.34.30		2205.72		0.5250	-0.2798	56.31	1.7506	
1.35.0		2204.98		0.5333	-0.2730	57.05	1.7563	
1.35.30		2204.70		0.5417	-0.2663	57.33	1.7584	
1.36.0		2204.74		0.5500	-0.2596	57.29	1.7581	
1.36.30		2204.61		0.5583	-0.2531	57.42	1.7591	
1.37.0		2204.57		0.5667	-0.2467	57.46	1.7594	
1.37.30		2205.12		0.5750	-0.2403	56.91	1.7552	
1.38.0		2204.71		0.5833	-0.2341	57.32	1.7583	
1.38.30		2204.98		0.5917	-0.2279	57.05	1.7563	
1.39.0		2205.01		0.6000	-0.2218	57.02	1.7560	
1.39.30		2204.86		0.6083	-0.2159	57.17	1.7572	
1.40.0		2204.89		0.6167	-0.2099	57.14	1.7569	
1.40.30		2205.25		0.6250	-0.2041	56.78	1.7542	
1.41.0		2205.13		0.6333	-0.1984	56.90	1.7551	
1.41.30		2204.91		0.6417	-0.1927	57.12	1.7568	
1.42.0		2205.37		0.6500	-0.1871	56.66	1.7533	
1.42.30		2205.49		0.6583	-0.1816	56.54	1.7524	
1.43.0		2205.37		0.6667	-0.1761	56.66	1.7533	
1.43.30		2205.31		0.6750	-0.1707	56.72	1.7537	
1.44.0		2205.29		0.6833	-0.1654	56.74	1.7539	
1.44.30		2204.96		0.6917	-0.1601	57.07	1.7564	
1.45.0		2205.19		0.7000	-0.1549	56.84	1.7547	
1.45.30		2204.99		0.7083	-0.1498	57.04	1.7562	
1.46.0		2204.97		0.7167	-0.1447	57.06	1.7563	
1.46.30		2205.66		0.7250	-0.1397	56.37	1.7510	
1.47.0		2206.17		0.7333	-0.1347	55.86	1.7471	
1.47.30		2205.97		0.7417	-0.1298	56.06	1.7487	
1.48.0		2205.76		0.7500	-0.1249	56.27	1.7503	
1.48.30		2205.99		0.7583	-0.1201	56.04	1.7485	
1.49.0		2205.97		0.7667	-0.1154	56.06	1.7487	
1.49.30		2206.03		0.7750	-0.1107	56.00	1.7482	
1.50.0		2205.64		0.7833	-0.1061	56.19	1.7497	
1.50.30		2205.55		0.7917	-0.1015	56.48	1.7519	
1.51.0		2205.43		0.8000	-0.0969	56.60	1.7528	
1.51.30		2205.49		0.8083	-0.0924	56.54	1.7524	

FLOPETROL & TEMPERATURE CALCULATIONS

REMARKS

LOG DEL.P

DEL.P

PSIA

LOG DEL.T

DEL.T

(HOURS)

TEMP. DEG.F

PRESS. PSIA

TIME

HR.MN.SS

TIME	HR.MN.SS	PRESS. PSIA	TEMP. DEG.F	DEL.T (HOURS)	LOG DEL.T	DEL.P PSIA	LOG DEL.P	REMARKS
1.52.0	2205.41			0.8167	-0.0880	56.62	1.7530	
1.52.30	2205.20			0.8250	-0.0835	56.83	1.7546	
1.53.0	2205.21			0.8333	-0.0792	56.82	1.7545	
1.53.30	2208.46			0.8417	-0.0749	53.57	1.7289	
1.54.0	2206.31			0.8500	-0.0706	55.72	1.7460	
1.54.30	2206.00			0.8583	-0.0663	56.03	1.7484	
1.55.0	2205.75			0.8667	-0.0621	56.28	1.7504	
1.55.30	2205.47			0.8750	-0.0580	56.56	1.7525	
1.56.0	2205.55			0.8833	-0.0539	56.48	1.7519	
1.56.30	2205.49			0.8917	-0.0498	56.54	1.7524	
1.57.0	2205.33			0.9000	-0.0458	56.70	1.7536	
1.57.30	2205.29			0.9083	-0.0418	56.74	1.7539	
1.58.0	2205.34			0.9167	-0.0378	56.69	1.7535	
1.58.30	2205.25			0.9250	-0.0339	56.78	1.7542	
1.59.0	2205.48			0.9333	-0.0300	56.59	1.7524	
1.59.30	2205.55			0.9417	-0.0261	56.48	1.7519	
2.0.0	2205.66			0.9500	-0.0223	56.37	1.7510	
2.0.30	2205.66			0.9583	-0.0185	56.37	1.7510	
2.1.0	2205.54			0.9667	-0.0147	56.49	1.7520	
2.1.30	2205.72			0.9750	-0.0110	56.31	1.7506	
2.2.0	2205.56			0.9833	-0.0073	56.47	1.7518	
2.2.30	2205.62			0.9917	-0.0036	56.41	1.7514	
2.3.0	2205.44			1.0000	-0.0000	56.59	1.7527	
2.3.30	2205.25			1.0083	0.0036	56.78	1.7542	
2.4.0	2205.64			1.0167	0.0072	56.39	1.7512	
2.4.30	2205.69			1.0250	0.0107	56.34	1.7508	
2.5.0	2205.50			1.0333	0.0142	56.45	1.7517	
2.5.30	2205.44			1.0417	0.0177	56.59	1.7527	
2.6.0	2205.79			1.0500	0.0212	56.24	1.7500	
2.6.30	2205.75			1.0583	0.0246	56.28	1.7504	
2.7.0	2205.54			1.0667	0.0280	56.49	1.7520	
2.7.30	2205.68			1.0750	0.0314	56.35	1.7509	
2.8.0	2205.63			1.0833	0.0348	56.20	1.7497	
2.8.30	2205.71			1.0917	0.0381	56.32	1.7507	
2.9.0	2205.68			1.1000	0.0414	56.35	1.7509	
2.9.30	2205.83			1.1083	0.0447	56.120	1.7497	
2.10.0	2205.97			1.1167	0.0479	56.00	1.7487	
2.10.30	2205.97			1.1250	0.0512	56.06	1.7487	
2.11.0	2206.08			1.1333	0.0544	55.95	1.7476	
2.11.30	2206.06			1.1417	0.0575	55.97	1.7480	
2.12.0	2206.26			1.1500	0.0607	55.77	1.7464	
2.12.30	2206.35			1.1583	0.0638	55.68	1.7457	

PRESSURE & TEMPERATURE CALCULATIONS

REMARKS

TIME HR. MIN. SS PRESS. PSIA TEMP. DEG. F DEL. T. (HOURS) LOG DEL. T. LOG DEL. T. DEL. P. PSIA LOG DEL. P.

2.13.0	0	2206.35	1.1667	0.0669	55.68	1.7457
2.13.30	0	2206.33	1.1750	0.0700	55.70	1.7459
2.14.0	0	2206.29	1.1833	0.0731	55.74	1.7462
2.14.30	0	2206.37	1.1917	0.0762	55.66	1.7455
2.15.0	0	2206.29	1.2000	0.0792	55.74	1.7462
2.15.30	0	2206.20	1.2083	0.0822	55.83	1.7469
2.16.0	0	2206.20	1.2167	0.0852	55.83	1.7469
2.16.30	0	2206.26	1.2250	0.0881	55.77	1.7464
2.17.0	0	2206.22	1.2333	0.0911	55.81	1.7467
2.17.30	0	2207.73	1.2417	0.0940	54.30	1.7348
2.18.0	0	2207.57	1.2500	0.0969	54.46	1.7361
2.18.30	0	2207.26	1.2583	0.0998	54.77	1.7385
2.19.0	0	2207.28	1.2667	0.1027	54.75	1.7384
2.19.30	0	2207.11	1.2750	0.1055	54.92	1.7397
2.20.0	0	2207.13	1.2833	0.1083	54.90	1.7396
2.20.30	0	2207.01	1.2917	0.1112	55.02	1.7405
2.21.0	0	2207.11	1.3000	0.1139	54.92	1.7397
2.21.30	0	2207.09	1.3083	0.1167	54.94	1.7399
2.22.0	0	2207.11	1.3167	0.1195	54.92	1.7397
2.22.30	0	2206.97	1.3250	0.1222	55.06	1.7408
2.23.0	0	2206.93	1.3333	0.1249	55.10	1.7412
2.23.30	0	2207.22	1.3417	0.1276	54.81	1.7389
2.24.0	0	2207.10	1.3500	0.1303	54.93	1.7398
2.24.30	0	2207.29	1.3583	0.1330	54.74	1.7383
2.25.0	0	2207.29	1.3667	0.1357	54.74	1.7383
2.25.30	0	2207.31	1.3750	0.1383	54.72	1.7381
2.26.0	0	2207.21	1.3833	0.1409	54.62	1.7369
2.26.30	0	2207.17	1.3917	0.1435	54.86	1.7393
2.27.0	0	2206.97	1.4000	0.1461	55.06	1.7408
2.27.30	0	2206.91	1.4083	0.1487	55.12	1.7413
2.28.0	0	2207.05	1.4167	0.1513	54.98	1.7402
2.28.30	0	2207.14	1.4250	0.1538	54.89	1.7395
2.29.0	0	2207.26	1.4333	0.1563	54.77	1.7385
2.29.30	0	2207.12	1.4417	0.1589	54.91	1.7397
2.30.0	0	2207.05	1.4500	0.1614	54.98	1.7402
2.30.30	0	2206.95	1.4583	0.1639	55.08	1.7410
2.31.0	0	2207.16	1.4667	0.1663	54.87	1.7393
2.31.30	0	2207.26	1.4750	0.1688	54.77	1.7385
2.32.0	0	2207.12	1.4833	0.1712	54.91	1.7397
2.32.30	0	2207.14	1.4917	0.1737	54.69	1.7395
2.33.0	0	2207.14	1.5000	0.1761	54.89	1.7399
2.33.30	0	2207.26	1.5083	0.1785	54.77	1.7385

DEPTH & TEMPERATURE CALCULATIONS

SECTION 2  
PAUL 7

REMARKS

LOG DEL.F

DEL.F

LOG DEL.F

DEL.F

TEMP.

PRESS.

TIME

PSIA

(HOURS)

TIME	PRESS.	TEMP.	DEL.F	LOG DEL.F	DEL.F	LOG DEL.F
2.34.0	2207.41		1.5167	0.1809	54.62	1.7374
2.34.30	2207.36		1.5250	0.1833	54.67	1.7377
2.35.0	2207.43		1.5333	0.1856	54.60	1.7372
2.35.30	2207.36		1.5417	0.1880	54.65	1.7376
2.36.0	2207.43		1.5500	0.1903	54.60	1.7372
2.36.30	2207.43		1.5583	0.1927	54.60	1.7372
2.37.0	2207.43		1.5667	0.1950	54.60	1.7372
2.37.30	2207.45		1.5750	0.1973	54.56	1.7370
2.38.0	2207.53		1.5833	0.1996	54.50	1.7364
2.38.30	2207.57		1.5917	0.2019	54.46	1.7361
2.39.0	2207.55		1.6000	0.2041	54.46	1.7362
2.39.30	2207.59		1.6083	0.2064	54.44	1.7359
2.40.0	2207.61		1.6167	0.2086	54.42	1.7355
2.40.30	2207.59		1.6250	0.2109	54.44	1.7359
2.41.0	2207.47		1.6333	0.2131	54.56	1.7369
2.41.30	2209.20		1.6417	0.2153	52.63	1.7229
2.42.0	2230.35		1.6500	0.2175	31.68	1.5006
2.42.30	2238.38		1.6583	0.2197	23.65	1.3738
2.43.0	2242.96		1.6667	0.2218	19.07	1.2604
2.43.30	2244.30		1.6750	0.2240	17.73	1.2467
2.44.0	2244.62		1.6833	0.2262	17.41	1.2408
2.44.30	2244.61		1.6917	0.2283	17.42	1.2410
2.45.0	2244.64		1.7000	0.2304	17.39	1.2403
2.45.30	2244.71		1.7083	0.2326	17.32	1.2365
2.46.0	2244.76		1.7167	0.2347	17.25	1.2366
2.46.30	2244.67		1.7250	0.2368	17.36	1.2395
2.47.0	2244.63		1.7333	0.2389	17.40	1.2405
2.47.30	2244.59		1.7417	0.2410	17.44	1.2415
2.48.0	2244.52		1.7500	0.2430	17.51	1.2433
2.48.30	2244.50		1.7583	0.2451	17.53	1.2438
2.49.0	2244.35		1.7667	0.2472	17.68	1.2475
2.49.30	2244.38		1.7750	0.2492	17.65	1.2467
2.50.0	2244.36		1.7833	0.2512	17.67	1.2472
2.50.30	2244.46		1.7917	0.2533	17.57	1.2448
2.51.0	2244.49		1.8000	0.2553	17.54	1.2440
2.51.30	2244.33		1.8083	0.2573	17.70	1.2460
2.52.0	2243.98		1.8167	0.2593	18.05	1.2505
2.52.30	2243.73		1.8250	0.2613	18.30	1.2625
2.53.0	2243.71		1.8333	0.2632	18.32	1.2629
2.53.30	2243.65		1.8417	0.2652	18.38	1.2643
2.54.0	2243.65		1.8500	0.2672	18.36	1.2643
2.54.30	2243.57		1.8583	0.2691	18.46	1.2662

CHANGE TO 40/64"  
FIX. CHOKE

FLOPPYROL  
PRESSURE & TEMPERATURE CALCULATIONS

REMARKS

TIME PRESS. TEMP. DEL.T (HOURS) DEL.T (FSIA) LOG DEL.T LOG DEL.P FSIA

2:55.0	2243.53		1.8667	0.2711	18.50	1.2672
2:55.30	2243.47		1.8750	0.2730	18.56	1.2686
2:56.0	2243.48		1.8833	0.2749	18.59	1.2683
2:56.30	2243.48		1.8917	0.2768	18.55	1.2663
2:57.0	2243.34		1.9000	0.2788	18.69	1.2716
2:57.30	2242.35		1.9063	0.2807	19.68	1.2940
2:58.0	2242.06		1.9167	0.2825	19.97	1.3004
2:58.30	2242.06		1.9250	0.2844	19.97	1.3004
2:59.0	2242.02		1.9333	0.2863	20.01	1.3012
2:59.30	2242.07		1.9417	0.2882	19.96	1.3002
3.0.0	2242.05		1.9500	0.2900	19.98	1.3006
3.0.30	2242.03		1.9583	0.2919	20.00	1.3010
3.1.0	2242.24		1.9667	0.2937	19.79	1.2964
3.1.30	2242.15		1.9750	0.2956	19.87	1.2982
3.2.0	2242.26		1.9833	0.2974	19.77	1.2960
3.2.30	2242.39		1.9917	0.2992	19.64	1.2931
3.3.0	2242.43		2.0000	0.3010	19.60	1.2923
3.3.30	2242.45		2.0083	0.3028	19.58	1.2918
3.4.0	2242.62		2.0167	0.3046	19.41	1.2880
3.4.30	2242.76		2.0250	0.3064	19.27	1.2849
3.5.0	2242.84		2.0333	0.3082	19.19	1.2831
3.5.30	2242.95		2.0417	0.3100	19.08	1.2806
3.6.0	2243.05		2.0500	0.3116	18.96	1.2783
3.6.30	2243.09		2.0583	0.3135	18.94	1.2774
3.7.0	2243.22		2.0667	0.3153	18.81	1.2744
3.7.30	2243.26		2.0750	0.3170	18.77	1.2735
3.8.0	2243.34		2.0833	0.3188	18.69	1.2716
3.8.30	2243.44		2.0917	0.3205	18.59	1.2693
3.9.0	2243.46		2.1000	0.3222	18.57	1.2688
3.9.30	2243.61		2.1083	0.3239	18.42	1.2653
3.10.0	2243.55		2.1167	0.3257	18.48	1.2667
3.10.30	2243.67		2.1250	0.3274	18.36	1.2639
3.11.0	2243.75		2.1333	0.3291	18.28	1.2620
3.11.30	2243.78		2.1417	0.3308	18.25	1.2613
3.12.0	2243.94		2.1500	0.3324	18.09	1.2574
3.12.30	2243.94		2.1583	0.3341	18.09	1.2574
3.13.0	2243.92		2.1667	0.3358	18.11	1.2579
3.13.30	2243.96		2.1750	0.3375	18.07	1.2570
3.14.0	2244.06		2.1833	0.3391	17.97	1.2545
3.14.30	2244.09		2.1917	0.3408	17.94	1.2538
3.15.0	2244.19		2.2000	0.3424	17.84	1.2514
3.15.30	2244.07		2.2083	0.3441	17.96	1.2543

FLOPETROL  
PRESSURE & TEMPERATURE CALCULATIONS

REMARKS

TIME	HR. MIN. SS	PRESS. PSIA	TEMP. DEG. F	DEL. T (HOURS)	LOG DEL. T	DEL. P	LOG DEL. P	REMARKS
	3.16.0	2244.00		2.2167	0.3457	18.03	1.2560	
	3.16.30	2244.07		2.2250	0.3473	17.96	1.2543	
	3.17.0	2244.13		2.2333	0.3490	17.90	1.2529	
	3.17.30	2244.19		2.2417	0.3506	17.84	1.2514	24
	3.18.0	2244.24		2.2500	0.3522	17.79	1.2502	
	3.18.30	2244.24		2.2583	0.3538	17.79	1.2502	
	3.19.0	2244.30		2.2667	0.3554	17.73	1.2487	
	3.19.30	2244.26		2.2750	0.3570	17.77	1.2497	
	3.20.0	2244.39		2.2833	0.3586	17.64	1.2465	
	3.20.30	2244.33		2.2917	0.3602	17.70	1.2480	
	3.21.0	2244.41		2.3000	0.3617	17.62	1.2460	
	3.21.30	2244.31		2.3083	0.3633	17.72	1.2485	
	3.22.0	2244.32		2.3167	0.3649	17.71	1.2482	
	3.22.30	2244.30		2.3250	0.3664	17.73	1.2487	
	3.23.0	2244.32		2.3333	0.3680	17.71	1.2482	
	3.23.30	2244.42		2.3417	0.3695	17.61	1.2458	
	3.24.0	2244.36		2.3500	0.3711	17.67	1.2472	
	3.24.30	2244.28		2.3583	0.3726	17.75	1.2492	
	3.25.0	2244.30		2.3667	0.3741	17.73	1.2487	
	3.25.30	2244.36		2.3750	0.3757	17.67	1.2472	
	3.26.0	2244.32		2.3833	0.3772	17.71	1.2482	
	3.26.30	2244.36		2.3917	0.3787	17.67	1.2472	
	3.27.0	2244.32		2.4000	0.3802	17.71	1.2482	
	3.27.30	2244.34		2.4083	0.3817	17.69	1.2477	
	3.28.0	2244.27		2.4167	0.3832	17.76	1.2494	
	3.28.30	2244.30		2.4250	0.3847	17.73	1.2487	
	3.29.0	2244.23		2.4333	0.3862	17.80	1.2504	
	3.29.30	2244.34		2.4417	0.3877	17.69	1.2477	
	3.30.0	2244.34		2.4500	0.3892	17.69	1.2477	
	3.30.30	2244.36		2.4583	0.3906	17.67	1.2472	
	3.31.0	2244.44		2.4667	0.3921	17.59	1.2453	
	3.31.30	2244.40		2.4750	0.3936	17.63	1.2463	
	3.32.0	2244.34		2.4833	0.3950	17.69	1.2477	
	3.32.30	2244.27		2.4917	0.3965	17.76	1.2494	
	3.33.0	2244.09		2.5000	0.3979	17.94	1.2538	
	3.33.30	2244.09		2.5083	0.3994	17.94	1.2538	
	3.34.0	2244.09		2.5167	0.4008	17.94	1.2538	
	3.34.30	2244.11		2.5250	0.4023	17.92	1.2533	
	3.35.0	2244.07		2.5333	0.4037	17.96	1.2543	
	3.35.30	2244.15		2.5417	0.4051	17.88	1.2524	
	3.36.0	2244.03		2.5500	0.4065	18.00	1.2553	
	3.36.30	2244.15		2.5583	0.4080	17.88	1.2524	

FLOWING  
Schlumberger

FLUID PRODUCTION & TEMPERATURE CALCULATIONS

SECTION 2  
PAGE 10

REMARKS

LOG DEL.P

DEL.P

LOG DEL.T

DEL.T

DEG.F

PSIA

HR. MIN. SS

PSIA

(HOURS)

TIME	HR.	MIN.	SS	PSIA	DEG.F	DEL.T	LOG DEL.T	DEL.P	LOG DEL.P	REMARKS
3:37.0	2244.15			2:5667	0.4094	17.88	1.2524			
3:37.30	2244.07			2:5750	0.4108	17.96	1.2543			
3:38.0	2244.09			2:5833	0.4122	17.94	1.2538			
3:38.30	2244.09			2:5917	0.4136	17.94	1.2538			
3:39.0	2244.17			2:6000	0.4150	17.86	1.2519			
3:39.30	2244.09			2:6083	0.4164	17.94	1.2538			
3:40.0	2244.19			2:6167	0.4177	17.84	1.2514			
3:40.30	2244.19			2:6250	0.4191	17.84	1.2514			
3:41.0	2244.11			2:6333	0.4205	17.92	1.2533			
3:41.30	2244.21			2:6417	0.4219	17.82	1.2509			
3:42.0	2244.17			2:6500	0.4232	17.86	1.2519			
3:42.30	2244.17			2:6583	0.4246	17.86	1.2519			
3:43.0	2244.23			2:6667	0.4260	17.80	1.2504			
3:43.30	2244.05			2:6750	0.4273	17.98	1.2548			
3:44.0	2244.05			2:6833	0.4287	17.98	1.2548			
3:44.30	2244.07			2:6917	0.4300	17.96	1.2543			
3:45.0	2244.13			2:7000	0.4314	17.90	1.2529			
3:45.30	2244.21			2:7083	0.4327	17.82	1.2509			
3:46.0	2244.19			2:7167	0.4340	17.84	1.2514			
3:46.30	2244.17			2:7250	0.4354	17.86	1.2519			
3:47.0	2244.11			2:7333	0.4367	17.92	1.2533			
3:47.30	2244.13			2:7417	0.4380	17.90	1.2529			
3:48.0	2244.03			2:7500	0.4393	18.00	1.2553			
3:48.30	2244.05			2:7583	0.4406	17.98	1.2548			
3:49.0	2244.07			2:7667	0.4420	17.96	1.2543			
3:49.30	2244.15			2:7750	0.4433	17.88	1.2524			
3:50.0	2244.05			2:7833	0.4446	17.98	1.2548			
3:50.30	2243.99			2:7917	0.4459	18.04	1.2562			
3:51.0	2244.21			2:8000	0.4472	17.82	1.2509			
3:51.30	2244.25			2:8083	0.4484	17.78	1.2499			
3:52.0	2244.15			2:8167	0.4497	17.88	1.2524			
3:52.30	2244.19			2:8250	0.4510	17.84	1.2514			
3:53.0	2244.25			2:8333	0.4523	17.78	1.2499			
3:53.30	2244.25			2:8417	0.4536	17.78	1.2499			
3:54.0	2244.17			2:8500	0.4548	17.86	1.2519			
3:54.30	2244.17			2:8583	0.4561	17.86	1.2519			
3:55.0	2244.11			2:8667	0.4574	17.92	1.2533			
3:55.30	2244.15			2:8750	0.4586	17.88	1.2524			
3:56.0	2244.15			2:8833	0.4599	17.88	1.2524			
3:56.30	2244.09			2:8917	0.4611	17.94	1.2538			
3:57.0	2244.17			2:9000	0.4624	17.86	1.2519			
3:57.30	2244.11			2:9083	0.4636	17.92	1.2533			

FLUID PROPERTIES & TEMPERATURE CALCULATIONS

DATE: 11/14/11

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LOG DELT.F

DEL.T.P  
PSIA

LOG DELT.T

DEL.T  
(HOURS)

TEMP.  
DEG.F

PRESS.  
PSIA

TIME  
HR:MIN:SS

TIME HR:MIN:SS	PRESS. PSIA	TEMP. DEG.F	DEL.T (HOURS)	LOG DELT.T	DEL.T.P PSIA	LOG DELT.F
3.50.0	2244.01		4.9167	0.4049	18.02	1.2500
3.56.30	2244.23		2.9250	0.4061	17.80	1.2504
3.59.0	2244.09		2.9333	0.4074	17.94	1.2536
3.59.30	2244.01		2.9417	0.4080	18.02	1.2558
4.0.0	2243.96		2.9500	0.4090	18.07	1.2570
4.0.30	2244.09		2.9583	0.4710	17.94	1.2538
4.1.0	2244.09		2.9667	0.4723	17.94	1.2536
4.1.30	2244.03		2.9750	0.4735	18.00	1.2553
4.2.0	2244.13		2.9833	0.4747	17.90	1.2529
4.2.30	2244.11		2.9917	0.4759	17.92	1.2533
4.3.0	2244.05		3.0000	0.4771	17.96	1.2548
4.3.30	2244.03		3.0083	0.4783	18.00	1.2553
4.4.0	2244.07		3.0167	0.4795	17.90	1.2543
4.4.30	2244.03		3.0250	0.4807	18.00	1.2553
4.5.0	2244.03		3.0333	0.4819	18.00	1.2553
4.5.30	2244.23		3.0417	0.4831	17.80	1.2504
4.6.0	2244.13		3.0500	0.4843	17.90	1.2529
4.6.30	2244.11		3.0583	0.4855	17.92	1.2533
4.7.0	2244.03		3.0667	0.4867	18.00	1.2553
4.7.30	2244.07		3.0750	0.4876	17.90	1.2543
4.8.0	2244.03		3.0833	0.4890	18.00	1.2553
4.8.30	2244.09		3.0917	0.4902	17.94	1.2536
4.9.0	2244.11		3.1000	0.4914	17.92	1.2533
4.9.30	2244.07		3.1083	0.4925	17.96	1.2543
4.10.0	2244.11		3.1167	0.4937	17.92	1.2533
4.10.30	2244.15		3.1250	0.4949	17.88	1.2524
4.11.0	2244.05		3.1333	0.4960	17.98	1.2548
4.11.30	2244.07		3.1417	0.4972	17.90	1.2543
4.12.0	2244.09		3.1500	0.4983	17.94	1.2536
4.12.30	2244.11		3.1583	0.4995	17.92	1.2533
4.13.0	2244.09		3.1667	0.5006	17.94	1.2538
4.13.30	2244.17		3.1750	0.5017	17.88	1.2519
4.14.0	2244.17		3.1833	0.5029	17.88	1.2519
4.14.30	2244.03		3.1917	0.5040	18.00	1.2553
4.15.0	2244.15		3.2000	0.5051	17.88	1.2524
4.15.30	2243.99		3.2083	0.5063	18.04	1.2582
4.16.0	2243.94		3.2167	0.5074	18.09	1.2574
4.16.30	2244.03		3.2250	0.5085	18.00	1.2553
4.17.0	2243.97		3.2333	0.5097	18.06	1.2587
4.17.30	2243.94		3.2417	0.5108	18.09	1.2574
4.18.0	2243.99		3.2500	0.5119	18.04	1.2582
4.18.30	2244.01		3.2583	0.5130	18.02	1.2558

TIME PRESS. & TEMPERATURE CALCULATIONS

FRAG 12 IDENTIFICATION

TIME IR-EM-SS	PRESS. PSIA	TEMP. DWS.F	DEL.T (HOURS)	LOG DEL.T	DEL.F PSIA	LOG DEL.F
4.19.0	2244.01		3.2667	0.5141	16.02	1.2996
4.19.30	2243.90		3.2750	0.5152	16.07	1.2970
4.20.0	2244.03		3.2633	0.5163	16.00	1.2953
4.20.30	2243.96		3.2917	0.5174	16.07	1.2970
4.21.0	2243.97		3.3000	0.5185	16.06	1.2967
4.21.30	2244.07		3.3063	0.5196	17.96	1.2943
4.22.0	2244.05		3.3167	0.5207	17.96	1.2946
4.22.30	2244.13		3.3250	0.5218	17.90	1.2929
4.23.0	2244.21		3.3333	0.5229	17.82	1.2909
4.23.30	2243.97		3.3417	0.5240	16.06	1.2967
4.24.0	2244.09		3.3500	0.5250	17.94	1.2936
4.24.30	2244.01		3.3583	0.5261	16.02	1.2996
4.25.0	2244.17		3.3667	0.5272	17.86	1.2919
4.25.30	2244.09		3.3750	0.5283	17.94	1.2936
4.26.0	2244.07		3.3833	0.5293	17.90	1.2943
4.26.30	2244.25		3.3917	0.5304	17.76	1.2999
4.27.0	2244.13		3.4000	0.5315	17.90	1.2929
4.27.30	2244.19		3.4083	0.5325	17.84	1.2914
4.28.0	2244.15		3.4167	0.5336	17.86	1.2924
4.28.30	2244.19		3.4250	0.5347	17.84	1.2914
4.29.0	2244.21		3.4333	0.5357	17.82	1.2909
4.29.30	2244.19		3.4417	0.5368	17.84	1.2914
4.30.0	2244.13		3.4500	0.5378	17.90	1.2929
4.30.30	2244.03		3.4583	0.5389	16.00	1.2953
4.31.0	2243.99		3.4667	0.5399	16.04	1.2962
4.31.30	2244.05		3.4750	0.5410	17.96	1.2946
4.32.0	2244.03		3.4833	0.5420	16.00	1.2953
4.32.30	2244.11		3.4917	0.5430	17.92	1.2933
4.33.0	2244.09		3.5000	0.5441	17.94	1.2936
4.33.30	2244.09		3.5083	0.5451	17.94	1.2936
4.34.0	2244.09		3.5167	0.5461	17.94	1.2936
4.34.30	2243.97		3.5250	0.5472	16.00	1.2967
4.35.0	2243.92		3.5333	0.5482	16.11	1.2979
4.35.30	2243.94		3.5417	0.5492	16.09	1.2974
4.36.0	2243.99		3.5500	0.5502	16.04	1.2962
4.36.30	2243.94		3.5583	0.5512	16.09	1.2974
4.37.0	2243.86		3.5667	0.5523	16.17	1.2994
4.37.30	2243.88		3.5750	0.5533	16.15	1.2989
4.38.0	2243.92		3.5833	0.5543	16.11	1.2979
4.38.30	2243.96		3.5917	0.5553	16.07	1.2970
4.39.0	2243.97		3.6000	0.5563	16.06	1.2967
4.39.30	2243.97		3.6083	0.5573	16.06	1.2967

PROBING & TEMPERATURE CALCULATIONS

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LOG DELT.F

DELT.F  
F01A

LOG DELT.F

DELT.F  
(HOURS)

TEMP.  
DELT.F

PROBING  
F01A

TIME  
MINUTES

ABSTRACT

4.40. 0	2243.99	3.0167	0.5563	16.04	1.2502
4.40.30	2244.05	3.0250	0.5593	17.96	1.2546
4.41. 0	2244.17	3.0333	0.5603	17.60	1.2519
4.41.30	2244.13	3.0417	0.5613	17.90	1.2522
4.42. 0	2244.07	3.0500	0.5623	17.96	1.2543
4.42.30	2244.05	3.0563	0.5633	17.96	1.2546
4.43. 0	2244.03	3.0607	0.5643	16.00	1.2533
4.43.30	2244.07	3.0750	0.5653	17.96	1.2543
4.44. 0	2244.03	3.0833	0.5662	16.00	1.2533
4.44.30	2244.03	3.0917	0.5672	16.00	1.2533
4.45. 0	2243.97	3.7000	0.5682	16.00	1.2507
4.45.30	2243.97	3.7003	0.5692	16.00	1.2507
4.46. 0	2243.92	3.7167	0.5702	16.11	1.2579
4.46.30	2243.92	3.7250	0.5711	16.11	1.2579
4.47. 0	2243.92	3.7333	0.5721	16.11	1.2579
4.47.30	2243.90	3.7417	0.5731	18.13	1.2584
4.48. 0	2243.92	3.7500	0.5740	18.11	1.2579
4.48.30	2243.92	3.7583	0.5750	18.11	1.2579
4.49. 0	2243.86	3.7667	0.5760	18.17	1.2594
4.49.30	2243.88	3.7750	0.5769	18.15	1.2589
4.50. 0	2243.92	3.7833	0.5779	18.11	1.2579
4.50.30	2243.90	3.7917	0.5788	18.13	1.2584
4.51. 0	2243.86	3.8000	0.5798	18.17	1.2594
4.51.30	2243.80	3.8083	0.5807	18.23	1.2608
4.52. 0	2243.86	3.8167	0.5817	18.17	1.2594
4.52.30	2243.88	3.8250	0.5826	18.15	1.2589
4.53. 0	2243.86	3.8333	0.5836	18.17	1.2594
4.53.30	2243.94	3.8417	0.5845	18.09	1.2574
4.54. 0	2244.01	3.8500	0.5855	18.02	1.2558
4.54.30	2243.99	3.8583	0.5864	18.04	1.2562
4.55. 0	2243.97	3.8667	0.5873	18.06	1.2567
4.55.30	2243.94	3.8750	0.5883	18.09	1.2574
4.56. 0	2243.92	3.8833	0.5892	18.11	1.2579
4.56.30	2243.96	3.8917	0.5901	18.07	1.2570
4.57. 0	2243.88	3.9000	0.5911	18.15	1.2589
4.57.30	2243.84	3.9083	0.5920	18.19	1.2598
4.58. 0	2243.84	3.9167	0.5929	18.19	1.2598
4.58.30	2243.80	3.9250	0.5938	18.23	1.2608
4.59. 0	2243.84	3.9333	0.5948	18.19	1.2598
4.59.30	2243.84	3.9417	0.5957	18.19	1.2598
5. 0. 0	2243.92	3.9500	0.5966	18.11	1.2579
5. 0.30	2243.96	3.9583	0.5975	18.07	1.2570

PRESSURE & TEMPERATURE CALCULATIONS

TIME HR.MN.SS	PRESS. PSIA	TEMP. DEG.F	DEL.T (HOURS)	LOG DEL.T	DEL.P PSIA	LOG DEL.P	REMARKS
5. 1. 0	2243.94		3.9667	0.5984	18.09	1.2574	
5. 1.30	2243.96		3.9750	0.5993	18.07	1.2570	
5. 2. 0	2243.96		3.9833	0.6002	18.07	1.2570	
5. 2.30	2244.05		3.9917	0.6012	17.98	1.2548	
5. 3. 0	2244.09		4.0000	0.6021	17.94	1.2538	
5. 3.30	2244.05		4.0083	0.6030	17.98	1.2548	
5. 4. 0	2244.09		4.0167	0.6039	17.94	1.2538	
5. 4.30	2244.17		4.0250	0.6048	17.86	1.2519	
5. 5. 0	2244.05		4.0333	0.6057	17.98	1.2548	
5. 5.30	2244.03		4.0417	0.6066	18.00	1.2553	
5. 6. 0	2244.01		4.0500	0.6075	18.02	1.2558	
5. 6.30	2244.01		4.0583	0.6083	18.02	1.2558	
5. 7. 0	2244.03		4.0667	0.6092	18.00	1.2553	
5. 7.30	2243.99		4.0750	0.6101	18.04	1.2562	
5. 8. 0	2243.97		4.0833	0.6110	18.06	1.2567	
5. 8.30	2244.03		4.0917	0.6119	18.00	1.2553	
5. 9. 0	2244.07		4.1000	0.6128	17.96	1.2543	
5. 9.30	2244.07		4.1083	0.6137	17.96	1.2543	
5.10. 0	2244.01		4.1167	0.6145	18.02	1.2558	
5.10.30	2244.03		4.1250	0.6154	18.00	1.2553	
5.11. 0	2244.03		4.1333	0.6163	18.00	1.2553	
5.11.30	2243.99		4.1417	0.6172	18.04	1.2562	
5.12. 0	2244.07		4.1500	0.6180	17.96	1.2543	
5.12.30	2244.07		4.1583	0.6189	17.96	1.2543	
5.13. 0	2244.07		4.1667	0.6198	17.96	1.2543	
5.13.30	2244.01		4.1750	0.6207	18.02	1.2558	
5.14. 0	2244.01		4.1833	0.6215	18.02	1.2558	
5.14.30	2244.01		4.1917	0.6224	18.02	1.2558	
5.15. 0	2243.99		4.2000	0.6232	18.04	1.2562	
5.15.30	2244.01		4.2083	0.6241	18.02	1.2558	
5.16. 0	2244.03		4.2167	0.6250	18.00	1.2553	
5.16.30	2244.01		4.2250	0.6258	18.02	1.2558	
5.17. 0	2244.01		4.2333	0.6267	18.02	1.2558	
5.17.30	2243.96		4.2417	0.6275	18.07	1.2570	
5.18. 0	2243.99		4.2500	0.6284	18.04	1.2562	
5.18.30	2244.01		4.2583	0.6292	18.02	1.2558	
5.19. 0	2244.03		4.2667	0.6301	18.00	1.2553	
5.19.30	2244.01		4.2750	0.6309	18.02	1.2558	
5.20. 0	2243.88		4.2833	0.6318	18.15	1.2589	
5.20.30	2243.84		4.2917	0.6326	18.19	1.2598	
5.21. 0	2243.86		4.3000	0.6335	18.17	1.2594	
5.21.30	2243.88		4.3083	0.6343	18.15	1.2589	

SCHEMELBERGER PRESSURE & TEMPERATURE CALCULATIONS

REMARKS

LOG DEL.P

DEL.P  
PSIA

LOG DEL.T

DEL.T  
(HOURS)

TEMP.  
DEG.F

PRESS.  
PSIA

TIME  
HR.MN.SS

5.22.0	2243.84	4.3167	0.6351	18.19	1.2598
5.22.30	2243.90	4.3250	0.6360	18.13	1.2584
5.23.0	2243.84	4.3333	0.6368	18.19	1.2598
5.23.30	2243.88	4.3417	0.6377	18.15	1.2589
5.24.0	2243.92	4.3500	0.6385	18.11	1.2579
5.24.30	2243.94	4.3583	0.6393	18.09	1.2574
5.25.0	2243.99	4.3667	0.6402	18.04	1.2562
5.25.30	2243.97	4.3750	0.6410	18.06	1.2567
5.26.0	2243.94	4.3833	0.6418	18.09	1.2574
5.26.30	2243.99	4.3917	0.6426	18.04	1.2562
5.27.0	2243.96	4.4000	0.6435	18.07	1.2570
5.27.30	2243.94	4.4083	0.6443	18.09	1.2574
5.28.0	2243.94	4.4167	0.6451	18.09	1.2574
5.28.30	2243.94	4.4250	0.6459	18.09	1.2574
5.29.0	2243.92	4.4333	0.6467	18.11	1.2579
5.29.30	2243.97	4.4417	0.6475	18.06	1.2567
5.30.0	2243.97	4.4500	0.6484	18.06	1.2567
5.30.30	2243.99	4.4583	0.6492	18.04	1.2562
5.31.0	2243.97	4.4667	0.6500	18.06	1.2567
5.31.30	2243.96	4.4750	0.6508	18.07	1.2570
5.32.0	2244.03	4.4833	0.6516	18.00	1.2553
5.32.30	2244.01	4.4917	0.6524	18.02	1.2558
5.33.0	2243.99	4.5000	0.6532	18.04	1.2562
5.33.30	2244.07	4.5083	0.6540	17.96	1.2543
5.34.0	2244.13	4.5167	0.6548	17.90	1.2529
5.34.30	2244.09	4.5250	0.6556	17.94	1.2538
5.35.0	2244.07	4.5333	0.6564	17.96	1.2543
5.35.30	2244.11	4.5417	0.6572	17.92	1.2533
5.36.0	2244.13	4.5500	0.6580	17.90	1.2529
5.36.30	2244.07	4.5583	0.6588	17.96	1.2543
5.37.0	2243.94	4.5667	0.6596	18.09	1.2574
5.37.30	2243.78	4.5750	0.6604	18.25	1.2613
5.38.0	2243.76	4.5833	0.6612	18.27	1.2617
5.38.30	2243.68	4.5917	0.6620	18.35	1.2636
5.39.0	2243.65	4.6000	0.6628	18.38	1.2643
5.39.30	2243.63	4.6083	0.6635	18.40	1.2648
5.40.0	2243.61	4.6167	0.6643	18.42	1.2653
5.40.30	2243.51	4.6250	0.6651	18.52	1.2676
5.41.0	2243.59	4.6333	0.6659	18.44	1.2658
5.41.30	2243.65	4.6417	0.6667	18.38	1.2643
5.42.0	2243.80	4.6500	0.6675	18.23	1.2608
5.42.30	2243.74	4.6583	0.6682	18.29	1.2622

PRESSURE & TEMPERATURE CALCULATIONS

TIME HR. MN. SS	PRESS. PSIA	TEMP. DEG. F	DEL. T (HOURS)	LOG DEL. T	DEL. P PSIA	LOG DEL. P
5.43.0	2243.89		4.6667	0.6690	18.14	1.2586
5.43.30	2243.89		4.6750	0.6698	18.14	1.2586
5.44.0	2243.99		4.6833	0.6706	18.04	1.2562
5.44.30	2244.45		4.6917	0.6713	17.58	1.2450
5.45.0	2244.62		4.7000	0.6721	17.41	1.2408
5.45.30	2244.87		4.7083	0.6729	17.16	1.2345
5.46.0	2245.16		4.7167	0.6736	16.87	1.2271
5.46.30	2245.14		4.7250	0.6744	16.89	1.2276
5.47.0	2243.39		4.7333	0.6752	18.64	1.2704
5.47.30	2222.61		4.7417	0.6759	39.42	1.5957
5.48.0	2215.24		4.7500	0.6767	46.79	1.6702
5.48.30	2212.29		4.7583	0.6775	49.74	1.6967
5.49.0	2210.37		4.7667	0.6782	51.66	1.7132
5.49.30	2209.17		4.7750	0.6790	52.86	1.7231
5.50.0	2208.58		4.7833	0.6797	53.45	1.7279
5.50.30	2208.46		4.7917	0.6805	53.57	1.7289
5.51.0	2209.38		4.8000	0.6812	52.65	1.7214
5.51.30	2209.50		4.8083	0.6820	52.53	1.7204
5.52.0	2208.81		4.8167	0.6827	53.22	1.7261
5.52.30	2208.54		4.8250	0.6835	53.49	1.7283
5.53.0	2208.37		4.8333	0.6842	53.66	1.7297
5.53.30	2208.35		4.8417	0.6850	53.68	1.7298
5.54.0	2207.49		4.8500	0.6857	54.54	1.7367
5.54.30	2218.70		4.8583	0.6865	43.33	1.6368
5.55.0	2224.83		4.8667	0.6872	37.20	1.5705
5.55.30	2227.29		4.8750	0.6880	34.74	1.5408
5.56.0	2229.00		4.8833	0.6887	33.03	1.5189
5.56.30	2233.26		4.8917	0.6895	28.77	1.4589
5.57.0	2235.76		4.9000	0.6902	26.27	1.4195
5.57.30	2237.05		4.9083	0.6909	24.98	1.3976
5.58.0	2238.09		4.9167	0.6917	23.94	1.3791
5.58.30	2238.59		4.9250	0.6924	23.44	1.3700
5.59.0	2238.57		4.9333	0.6931	23.46	1.3703
5.59.30	2239.28		4.9417	0.6939	22.75	1.3570
6.0.0	2240.07		4.9500	0.6946	21.96	1.3416
6.0.30	2240.47		4.9583	0.6953	21.56	1.3336
6.1.0	2240.33		4.9667	0.6961	21.70	1.3365
6.1.30	2239.86		4.9750	0.6968	22.17	1.3458
6.2.0	2239.03		4.9833	0.6975	23.00	1.3617
6.2.30	2238.62		4.9917	0.6982	23.41	1.3694
6.3.0	2238.39		5.0000	0.6990	23.64	1.3736
6.3.30	2237.61		5.0083	0.6997	24.42	1.3877

CHANGE TO 48/64"  
ADJ. CHOKE

CHANGE TO 48/64"  
FIX. CHOKE

REMARKS

LOG DEL.P

DEL.P  
PSIA

LOG DEL.T

DEL.T  
(HOURS)

TEMP.  
DEG.F

PRESS.  
PSIA

TIME  
HR..MN..SS

6. 4. 0	2237.57	5.0167	0.7004	24.46	1.3885
6. 4. 30	2237.69	5.0250	0.7011	24.34	1.3863
6. 5. 0	2237.69	5.0333	0.7019	24.34	1.3863
6. 5. 30	2237.23	5.0417	0.7026	24.80	1.3945
6. 6. 0	2237.05	5.0500	0.7033	24.98	1.3976
6. 6. 30	2236.61	5.0583	0.7040	25.42	1.4052
6. 7. 0	2236.10	5.0667	0.7047	25.93	1.4138
6. 7. 30	2235.60	5.0750	0.7054	26.43	1.4221
6. 8. 0	2233.88	5.0833	0.7061	28.15	1.4495
6. 8. 30	2233.20	5.0917	0.7069	28.83	1.4598
6. 9. 0	2232.62	5.1000	0.7076	29.41	1.4685
6. 9. 30	2232.60	5.1083	0.7083	29.43	1.4688
6.10. 0	2232.37	5.1167	0.7090	29.66	1.4722
6.10. 30	2232.27	5.1250	0.7097	29.76	1.4736
6.11. 0	2232.44	5.1333	0.7104	29.59	1.4711
6.11. 30	2232.41	5.1417	0.7111	29.62	1.4716
6.12. 0	2232.41	5.1500	0.7118	29.62	1.4716
6.12. 30	2232.17	5.1583	0.7125	29.86	1.4751
6.13. 0	2232.29	5.1667	0.7132	29.74	1.4733
6.13. 30	2232.39	5.1750	0.7139	29.64	1.4719
6.14. 0	2232.39	5.1833	0.7146	29.64	1.4719
6.14. 30	2232.39	5.1917	0.7153	29.64	1.4719
6.15. 0	2232.33	5.2000	0.7160	29.70	1.4728
6.15. 30	2232.37	5.2083	0.7167	29.66	1.4722
6.16. 0	2232.50	5.2167	0.7174	29.53	1.4703
6.16. 30	2232.50	5.2250	0.7181	29.53	1.4703
6.17. 0	2232.52	5.2333	0.7188	29.51	1.4700
6.17. 30	2232.60	5.2417	0.7195	29.43	1.4688
6.18. 0	2232.54	5.2500	0.7202	29.49	1.4697
6.18. 30	2232.44	5.2583	0.7208	29.59	1.4711
6.19. 0	2232.56	5.2667	0.7215	29.47	1.4694
6.19. 30	2232.68	5.2750	0.7222	29.35	1.4676
6.20. 0	2232.52	5.2833	0.7229	29.51	1.4700
6.20. 30	2232.56	5.2917	0.7236	29.47	1.4694
6.21. 0	2232.62	5.3000	0.7243	29.41	1.4685
6.21. 30	2232.66	5.3083	0.7250	29.37	1.4679
6.22. 0	2232.75	5.3167	0.7256	29.28	1.4666
6.22. 30	2232.93	5.3250	0.7263	29.10	1.4639
6.23. 0	2233.01	5.3333	0.7270	29.02	1.4627
6.23. 30	2232.89	5.3417	0.7277	29.14	1.4645
6.24. 0	2233.06	5.3500	0.7284	28.97	1.4619
6.24. 30	2233.57	5.3583	0.7290	28.46	1.4542

PRESSURE & TEMPERATURE CALCULATIONS

REMARKS

LOG DEL.P

DEL.P  
PSIA

LOG DEL.T

DEL.T  
(HOURS)

TEMP.  
DEG.F

PRESS.  
PSIA

TIME  
HR.MN.SS

6.25.0	2233.86	5.3667	0.7297	28.17	1.4498
6.25.30	2234.09	5.3750	0.7304	27.94	1.4462
6.26.0	2233.78	5.3833	0.7311	28.25	1.4510
6.26.30	2234.07	5.3917	0.7317	27.96	1.4465
6.27.0	2233.51	5.4000	0.7324	28.52	1.4551
6.27.30	2233.18	5.4083	0.7331	28.85	1.4601
6.28.0	2233.12	5.4167	0.7337	28.91	1.4610
6.28.30	2233.20	5.4250	0.7344	28.83	1.4598
6.29.0	2233.57	5.4333	0.7351	28.46	1.4542
6.29.30	2234.15	5.4417	0.7357	27.88	1.4453
6.30.0	2234.75	5.4500	0.7364	27.28	1.4358
6.30.30	2234.75	5.4583	0.7371	27.28	1.4358
6.31.0	2234.01	5.4667	0.7377	28.02	1.4475
6.31.30	2233.45	5.4750	0.7384	28.58	1.4561
6.32.0	2233.20	5.4833	0.7390	28.83	1.4598
6.32.30	2233.10	5.4917	0.7397	28.93	1.4613
6.33.0	2233.20	5.5000	0.7404	28.83	1.4598
6.33.30	2233.28	5.5083	0.7410	28.75	1.4586
6.34.0	2232.99	5.5167	0.7417	29.04	1.4630
6.34.30	2232.91	5.5250	0.7423	29.12	1.4642
6.35.0	2232.89	5.5333	0.7430	29.14	1.4645
6.35.30	2232.95	5.5417	0.7436	29.08	1.4636
6.36.0	2233.02	5.5500	0.7443	29.01	1.4625
6.36.30	2233.10	5.5583	0.7449	28.93	1.4613
6.37.0	2233.20	5.5667	0.7456	28.83	1.4598
6.37.30	2233.18	5.5750	0.7462	28.85	1.4601
6.38.0	2233.39	5.5833	0.7469	28.64	1.4570
6.38.30	2233.49	5.5917	0.7475	28.54	1.4555
6.39.0	2233.61	5.6000	0.7482	28.42	1.4536
6.39.30	2233.90	5.6083	0.7488	28.13	1.4492
6.40.0	2233.88	5.6167	0.7495	28.15	1.4495
6.40.30	2234.07	5.6250	0.7501	27.96	1.4465
6.41.0	2233.92	5.6333	0.7508	28.11	1.4489
6.41.30	2233.68	5.6417	0.7514	28.35	1.4526
6.42.0	2233.43	5.6500	0.7520	28.60	1.4564
6.42.30	2233.39	5.6583	0.7527	28.64	1.4570
6.43.0	2233.24	5.6667	0.7533	28.79	1.4592
6.43.30	2233.16	5.6750	0.7540	28.87	1.4604
6.44.0	2233.16	5.6833	0.7546	28.87	1.4604
6.44.30	2233.10	5.6917	0.7552	28.93	1.4613
6.45.0	2233.06	5.7000	0.7559	28.97	1.4619
6.45.30	2233.24	5.7083	0.7565	28.79	1.4592

CHANGE TO 48/64"  
ADJ. CHOKE

PRESSURE & TEMPERATURE CALCULATIONS

REMARKS

TIME HR. MN. SS	PRESS. PSIA	TEMP. DEG. F	DEL. T (HOURS)	LOG DEL. T	DEL. P PSIA	LOG DEL. P
6.46.0	2233.16		5.7167	0.7571	28.87	1.4604
6.46.30	2233.20		5.7250	0.7578	28.83	1.4598
6.47.0	2233.32		5.7333	0.7584	28.71	1.4580
6.47.30	2233.80		5.7417	0.7590	28.23	1.4507
6.48.0	2234.52		5.7500	0.7597	27.51	1.4395
6.48.30	2226.10		5.7583	0.7603	35.93	1.5555
6.49.0	2217.94		5.7667	0.7609	44.09	1.6443
6.49.30	2214.84		5.7750	0.7616	47.19	1.6738
6.50.0	2213.68		5.7833	0.7622	48.35	1.6844
6.50.30	2213.39		5.7917	0.7628	48.64	1.6870
6.51.0	2211.09		5.8000	0.7634	50.94	1.7071
6.51.30	2209.64		5.8083	0.7641	52.39	1.7192
6.52.0	2208.43		5.8167	0.7647	53.60	1.7292
6.52.30	2208.02		5.8250	0.7653	54.01	1.7325
6.53.0	2207.81		5.8333	0.7659	54.22	1.7342
6.53.30	2208.05		5.8417	0.7665	53.98	1.7322
6.54.0	2208.21		5.8500	0.7672	53.82	1.7309
6.54.30	2208.56		5.8583	0.7678	53.47	1.7281
6.55.0	2209.67		5.8667	0.7684	52.36	1.7190
6.55.30	2211.63		5.8750	0.7690	50.40	1.7024
6.56.0	2212.08		5.8833	0.7696	49.95	1.6985
6.56.30	2214.23		5.8917	0.7702	47.80	1.6794
6.57.0	2212.15		5.9000	0.7709	49.88	1.6979
6.57.30	2211.45		5.9083	0.7715	50.58	1.7040
6.58.0	2210.31		5.9167	0.7721	51.72	1.7137
6.58.30	2209.62		5.9250	0.7727	52.41	1.7194
6.59.0	2209.08		5.9333	0.7733	52.95	1.7239
6.59.30	2209.31		5.9417	0.7739	52.72	1.7220
7.0.0	2210.17		5.9500	0.7745	51.86	1.7148
7.0.30	2210.67		5.9583	0.7751	51.36	1.7106
7.1.0	2214.10		5.9667	0.7757	47.93	1.6806
7.1.30	2217.28		5.9750	0.7763	44.75	1.6508
7.2.0	2219.39		5.9833	0.7769	42.64	1.6298
7.2.30	2222.08		5.9917	0.7775	39.95	1.6015
7.3.0	2226.54		6.0000	0.7782	35.49	1.5501
7.3.30	2229.50		6.0083	0.7788	32.53	1.5123
7.4.0	2231.55		6.0167	0.7794	30.48	1.4840
7.4.30	2232.98		6.0250	0.7800	29.05	1.4631
7.5.0	2234.33		6.0333	0.7806	27.70	1.4425
7.5.30	2231.92		6.0417	0.7812	30.11	1.4787
7.6.0	2231.22		6.0500	0.7818	30.81	1.4887
7.6.30	2232.45		6.0583	0.7824	29.58	1.4710

CHANGE TO 54/64"  
FIX. CHOKE

PRESSURE & TEMPERATURE CALCULATIONS

REMARKS

TIME HR.MN.SS	PRESS. PSIA	TEMP. DEG.F	DEL.T (HOURS)	LOG DEL.T	DEL.P PSIA	LOG DEL.P
7. 7. 0	2233.05		6.0667	0.7830	28.98	1.4621
7. 7. 30	2233.13		6.0750	0.7835	28.90	1.4609
7. 8. 0	2232.14		6.0833	0.7841	29.89	1.4755
7. 8. 30	2231.40		6.0917	0.7847	30.63	1.4861
7. 9. 0	2229.73		6.1000	0.7853	32.30	1.5092
7. 9. 30	2228.90		6.1083	0.7859	33.13	1.5202
7.10. 0	2228.10		6.1167	0.7865	33.93	1.5306
7.10. 30	2225.74		6.1250	0.7871	36.29	1.5598
7.11. 0	2224.44		6.1333	0.7877	37.59	1.5751
7.11. 30	2224.15		6.1417	0.7883	37.88	1.5784
7.12. 0	2224.12		6.1500	0.7889	37.91	1.5788
7.12. 30	2224.22		6.1583	0.7895	37.81	1.5776
7.13. 0	2224.34		6.1667	0.7901	37.69	1.5762
7.13. 30	2224.32		6.1750	0.7906	37.71	1.5765
7.14. 0	2224.63		6.1833	0.7912	37.40	1.5729
7.14. 30	2224.94		6.1917	0.7918	37.09	1.5693
7.15. 0	2225.27		6.2000	0.7924	36.76	1.5654
7.15. 30	2225.54		6.2083	0.7930	36.49	1.5622
7.16. 0	2225.85		6.2167	0.7936	36.18	1.5585
7.16. 30	2225.90		6.2250	0.7941	36.13	1.5579
7.17. 0	2225.48		6.2333	0.7947	36.55	1.5629
7.17. 30	2226.08		6.2417	0.7953	35.95	1.5557
7.18. 0	2226.87		6.2500	0.7959	35.16	1.5460
7.18. 30	2227.80		6.2583	0.7965	34.23	1.5344
7.19. 0	2228.98		6.2667	0.7970	33.05	1.5192
7.19. 30	2229.89		6.2750	0.7976	32.14	1.5070
7.20. 0	2230.38		6.2833	0.7982	31.65	1.5004
7.20. 30	2230.96		6.2917	0.7988	31.07	1.4923
7.21. 0	2231.46		6.3000	0.7993	30.57	1.4853
7.21. 30	2232.14		6.3083	0.7999	29.89	1.4755
7.22. 0	2232.45		6.3167	0.8005	29.58	1.4710
7.22. 30	2233.14		6.3250	0.8011	28.89	1.4607
7.23. 0	2234.20		6.3333	0.8016	27.83	1.4445
7.23. 30	2233.93		6.3417	0.8022	28.10	1.4487
7.24. 0	2233.97		6.3500	0.8028	28.06	1.4481
7.24. 30	2234.22		6.3583	0.8033	27.81	1.4442
7.25. 0	2234.23		6.3667	0.8039	27.80	1.4440
7.25. 30	2234.13		6.3750	0.8045	27.90	1.4456
7.26. 0	2234.35		6.3833	0.8050	27.68	1.4422
7.26. 30	2234.73		6.3917	0.8056	27.30	1.4362
7.27. 0	2234.82		6.4000	0.8062	27.21	1.4347
7.27. 30	2235.04		6.4083	0.8067	26.99	1.4312

PRESSURE & TEMPERATURE CALCULATIONS

REMARKS

TIME HR. MN. SS	PRESS. PSIA	TEMP. DEG. F	DEL. T (HOURS)	LOG DEL. T	DEL. P PSIA	LOG DEL. P	REMARKS
7.28. 0	2235.27		6.4167	0.8073	26.76	1.4275	
7.28.30	2235.52		6.4250	0.8079	26.51	1.4234	
7.29. 0	2235.77		6.4333	0.8084	26.26	1.4193	
7.29.30	2236.18		6.4417	0.8090	25.85	1.4125	
7.30. 0	2236.70		6.4500	0.8096	25.33	1.4036	
7.30.30	2237.11		6.4583	0.8101	24.92	1.3965	
7.31. 0	2237.59		6.4667	0.8107	24.44	1.3881	
7.31.30	2237.98		6.4750	0.8112	24.05	1.3811	
7.32. 0	2235.19		6.4833	0.8118	26.84	1.4288	
7.32.30	2232.56		6.4917	0.8124	29.47	1.4694	
7.33. 0	2231.71		6.5000	0.8129	30.32	1.4817	
7.33.30	2231.69		6.5083	0.8135	30.34	1.4820	
7.34. 0	2231.90		6.5167	0.8140	30.13	1.4790	
7.34.30	2232.35		6.5250	0.8146	29.68	1.4725	
7.35. 0	2232.77		6.5333	0.8151	29.26	1.4663	
7.35.30	2233.10		6.5417	0.8157	28.93	1.4613	
7.36. 0	2233.30		6.5500	0.8162	28.73	1.4583	
7.36.30	2233.61		6.5583	0.8168	28.42	1.4536	
7.37. 0	2233.80		6.5667	0.8173	28.23	1.4507	
7.37.30	2234.28		6.5750	0.8179	27.75	1.4433	
7.38. 0	2234.70		6.5833	0.8184	27.33	1.4366	
7.38.30	2235.11		6.5917	0.8190	26.92	1.4301	
7.39. 0	2235.05		6.6000	0.8195	26.98	1.4310	
7.39.30	2235.28		6.6083	0.8201	26.75	1.4273	
7.40. 0	2235.72		6.6167	0.8206	26.31	1.4201	
7.40.30	2236.14		6.6250	0.8212	25.89	1.4131	
7.41. 0	2236.36		6.6333	0.8217	25.67	1.4094	
7.41.30	2236.22		6.6417	0.8223	25.81	1.4118	
7.42. 0	2236.47		6.6500	0.8228	25.56	1.4076	
7.42.30	2236.76		6.6583	0.8234	25.27	1.4026	
7.43. 0	2236.89		6.6667	0.8239	25.14	1.4004	
7.43.30	2236.89		6.6750	0.8245	25.14	1.4004	
7.44. 0	2237.09		6.6833	0.8250	24.94	1.3969	
7.44.30	2237.22		6.6917	0.8255	24.81	1.3946	
7.45. 0	2237.28		6.7000	0.8261	24.75	1.3936	
7.45.30	2237.53		6.7083	0.8266	24.50	1.3892	
7.46. 0	2237.59		6.7167	0.8272	24.44	1.3881	
7.46.30	2237.82		6.7250	0.8277	24.21	1.3840	
7.47. 0	2238.02		6.7333	0.8282	24.01	1.3804	
7.47.30	2238.17		6.7417	0.8288	23.86	1.3777	
7.48. 0	2237.90		6.7500	0.8293	24.13	1.3826	
7.48.30	2237.44		6.7583	0.8298	24.59	1.3908	

PRESSURE & TEMPERATURE CALCULATIONS

-2

TIME HR.MN.SS	PRESS. PSIA	TEMP. DEG.F	DEL.T (HOURS)	LOG DEL.T	DEL.P PSIA	LOG DEL.P	REMARKS
7.49.0	2237.30		6.7667	0.8304	24.73	1.3932	
7.49.30	2237.49		6.7750	0.8309	24.54	1.3899	
7.50.0	2237.84		6.7833	0.8314	24.19	1.3836	
7.50.30	2237.90		6.7917	0.8320	24.13	1.3826	
7.51.0	2238.05		6.8000	0.8325	23.98	1.3798	
7.51.30	2238.25		6.8083	0.8330	23.78	1.3762	
7.52.0	2238.05		6.8167	0.8336	23.98	1.3798	
7.52.30	2238.05		6.8250	0.8341	23.98	1.3798	
7.53.0	2238.19		6.8333	0.8346	23.84	1.3773	
7.53.30	2238.36		6.8417	0.8352	23.67	1.3742	
7.54.0	2238.63		6.8500	0.8357	23.40	1.3692	
7.54.30	2238.64		6.8583	0.8362	23.39	1.3690	
7.55.0	2239.01		6.8667	0.8367	23.02	1.3621	
7.55.30	2239.18		6.8750	0.8373	22.85	1.3589	
7.56.0	2239.18		6.8833	0.8378	22.85	1.3589	
7.56.30	2239.12		6.8917	0.8383	22.91	1.3600	
7.57.0	2239.15		6.9000	0.8388	22.88	1.3595	
7.57.30	2239.29		6.9083	0.8394	22.74	1.3568	
7.58.0	2239.43		6.9167	0.8399	22.60	1.3541	
7.58.30	2239.52		6.9250	0.8404	22.51	1.3524	
7.59.0	2239.62		6.9333	0.8409	22.41	1.3504	
7.59.30	2239.64		6.9417	0.8415	22.39	1.3501	
8.0.0	2239.48		6.9500	0.8420	22.55	1.3531	
8.0.30	2239.52		6.9583	0.8425	22.51	1.3524	
8.1.0	2239.50		6.9667	0.8430	22.53	1.3528	
8.1.30	2239.62		6.9750	0.8435	22.41	1.3504	
8.2.0	2239.72		6.9833	0.8441	22.31	1.3485	
8.2.30	2239.72		6.9917	0.8446	22.31	1.3485	
8.3.0	2239.77		7.0000	0.8451	22.26	1.3475	
8.3.30	2239.81		7.0083	0.8456	22.22	1.3467	
8.4.0	2240.05		7.0167	0.8461	21.98	1.3420	
8.4.30	2240.16		7.0250	0.8466	21.87	1.3398	
8.5.0	2240.26		7.0333	0.8472	21.77	1.3379	
8.5.30	2240.18		7.0417	0.8477	21.85	1.3395	
8.6.0	2240.06		7.0500	0.8482	21.97	1.3418	
8.6.30	2240.12		7.0583	0.8487	21.91	1.3406	
8.7.0	2240.32		7.0667	0.8492	21.71	1.3367	
8.7.30	2240.49		7.0750	0.8497	21.54	1.3332	
8.8.0	2240.65		7.0833	0.8502	21.38	1.3300	
8.8.30	2240.82		7.0917	0.8507	21.21	1.3265	
8.9.0	2240.97		7.1000	0.8513	21.06	1.3235	
8.9.30	2241.03		7.1083	0.8518	21.00	1.3222	

CHANGE TO 64/64"  
FIX. CHOKE

FLUORINE PRESSURE & TEMPERATURE CALCULATIONS

TIME HR. MN. SS	PRESS. PSIA	TEMP. DEG. F	DEL. T (HOURS)	LOG DEL. T	DEL. P PSIA	LOG DEL. P	REMARKS
8.10. 0	2241.15		7.1167	0.8523	20.88	1.3197	
8.10.30	2240.82		7.1250	0.8528	21.21	1.3265	
8.11. 0	2240.76		7.1333	0.8533	21.27	1.3278	
8.11.30	2233.33		7.1417	0.8538	28.70	1.4579	
8.12. 0	2230.68		7.1500	0.8543	31.35	1.4962	
8.12.30	2230.08		7.1583	0.8548	31.95	1.5045	
8.13. 0	2230.12		7.1667	0.8553	31.91	1.5039	
8.13.30	2230.68		7.1750	0.8558	31.35	1.4962	
8.14. 0	2230.88		7.1833	0.8563	31.15	1.4935	
8.14.30	2231.07		7.1917	0.8568	30.96	1.4908	
8.15. 0	2231.21		7.2000	0.8573	30.82	1.4888	
8.15.30	2231.08		7.2083	0.8578	30.95	1.4907	
8.16. 0	2231.64		7.2167	0.8583	30.39	1.4827	
8.16.30	2232.19		7.2250	0.8588	29.84	1.4748	
8.17. 0	2232.65		7.2333	0.8593	29.38	1.4681	
8.17.30	2229.93		7.2417	0.8598	32.10	1.5065	
8.18. 0	2218.06		7.2500	0.8603	43.97	1.6432	
8.18.30	2200.86		7.2583	0.8608	61.17	1.7865	
8.19. 0	2191.00		7.2667	0.8613	71.03	1.8514	
8.19.30	2185.12		7.2750	0.8618	76.91	1.8860	
8.20. 0	2182.48		7.2833	0.8623	79.55	1.9006	
8.20.30	2181.19		7.2917	0.8628	80.84	1.9076	
8.21. 0	2180.91		7.3000	0.8633	81.12	1.9091	
8.21.30	2180.01		7.3083	0.8638	82.02	1.9139	
8.22. 0	2179.13		7.3167	0.8643	82.90	1.9186	
8.22.30	2178.07		7.3250	0.8648	83.96	1.9241	
8.23. 0	2177.29		7.3333	0.8653	84.74	1.9281	
8.23.30	2177.69		7.3417	0.8658	84.34	1.9260	
8.24. 0	2178.03		7.3500	0.8663	84.00	1.9243	
8.24.30	2177.90		7.3583	0.8668	84.13	1.9250	
8.25. 0	2177.20		7.3667	0.8673	84.83	1.9285	
8.25.30	2176.26		7.3750	0.8678	85.77	1.9333	
8.26. 0	2170.02		7.3833	0.8683	92.01	1.9638	
8.26.30	2167.09		7.3917	0.8687	94.94	1.9774	
8.27. 0	2165.19		7.4000	0.8692	96.84	1.9861	
8.27.30	2164.15		7.4083	0.8697	97.88	1.9907	
8.28. 0	2163.77		7.4167	0.8702	98.26	1.9924	
8.28.30	2163.47		7.4250	0.8707	98.56	1.9937	
8.29. 0	2162.55		7.4333	0.8712	99.48	1.9977	
8.29.30	2161.77		7.4417	0.8717	100.26	2.0011	
8.30. 0	2161.52		7.4500	0.8722	100.51	2.0022	
8.30.30	2160.66		7.4583	0.8726	101.37	2.0059	

PRESSURE & TEMPERATURE CALCULATIONS

DATE 4

REMARKS

LOG DEL.P

DEL.P PSIA

LOG DEL.T

DEL.T (HOURS)

TEMP. DEG.F

PRESS. PSIA

TIME HR.MN.SS

8.31.0	2160.24	7.4667	0.8731	101.79	2.0077
8.31.30	2159.98	7.4750	0.8736	102.05	2.0088
8.32.0	2159.95	7.4833	0.8741	102.08	2.0089
8.32.30	2159.80	7.4917	0.8746	102.23	2.0096
8.33.0	2160.10	7.5000	0.8751	101.93	2.0083
8.33.30	2160.61	7.5083	0.8755	101.42	2.0061
8.34.0	2160.75	7.5167	0.8760	101.28	2.0055
8.34.30	2160.66	7.5250	0.8765	101.37	2.0059
8.35.0	2160.79	7.5333	0.8770	101.24	2.0054
8.35.30	2160.89	7.5417	0.8775	101.14	2.0049
8.36.0	2160.78	7.5500	0.8779	101.25	2.0054
8.36.30	2160.77	7.5583	0.8784	101.26	2.0054
8.37.0	2160.87	7.5667	0.8789	101.16	2.0050
8.37.30	2161.24	7.5750	0.8794	100.79	2.0034
8.38.0	2161.46	7.5833	0.8799	100.57	2.0025
8.38.30	2161.48	7.5917	0.8803	100.55	2.0024
8.39.0	2161.56	7.6000	0.8808	100.47	2.0020
8.39.30	2161.85	7.6083	0.8813	100.18	2.0008
8.40.0	2162.49	7.6167	0.8818	99.54	1.9980
8.40.30	2163.02	7.6250	0.8822	99.01	1.9957
8.41.0	2163.77	7.6333	0.8827	98.26	1.9924
8.41.30	2164.86	7.6417	0.8832	97.17	1.9875
8.42.0	2165.60	7.6500	0.8837	96.43	1.9842
8.42.30	2169.50	7.6583	0.8841	92.53	1.9663
8.43.0	2172.73	7.6667	0.8846	89.30	1.9509
8.43.30	2175.02	7.6750	0.8851	87.01	1.9396
8.44.0	2177.57	7.6833	0.8855	84.46	1.9267
8.44.30	2179.62	7.6917	0.8860	82.41	1.9160
8.45.0	2180.87	7.7000	0.8865	81.16	1.9093
8.45.30	2181.10	7.7083	0.8870	80.93	1.9081
8.46.0	2182.34	7.7167	0.8874	79.69	1.9014
8.46.30	2184.02	7.7250	0.8879	78.01	1.8922
8.47.0	2186.17	7.7333	0.8884	75.86	1.8800
8.47.30	2188.25	7.7417	0.8888	73.78	1.8679
8.48.0	2190.56	7.7500	0.8893	71.47	1.8541
8.48.30	2191.97	7.7583	0.8898	70.06	1.8455
8.49.0	2193.99	7.7667	0.8902	68.04	1.8328
8.49.30	2196.02	7.7750	0.8907	66.01	1.8196
8.50.0	2198.60	7.7833	0.8912	63.43	1.8023
8.50.30	2202.02	7.7917	0.8916	60.01	1.7782
8.51.0	2201.85	7.8000	0.8921	60.18	1.7795
8.51.30	2196.77	7.8083	0.8926	65.26	1.8146

PRESSURE & TEMPERATURE CALCULATIONS

PAGE 25

REMARKS

LOG DEL.P

DEL.P  
PSIA

LOG DEL.T

DEL.T  
(HOURS)

TEMP.  
DEG.F

PRESS.  
PSIA

TIME  
HR.MN.SS

TIME HR.MN.SS	PRESS. PSIA	TEMP. DEG.F	DEL.T (HOURS)	LOG DEL.T	DEL.P PSIA	LOG DEL.P	REMARKS
8.52.0	2195.16		7.8167	0.8930	66.87	1.8252	
8.52.30	2192.54		7.8250	0.8935	69.49	1.8419	
8.53.0	2190.91		7.8333	0.8939	71.12	1.8520	
8.53.30	2190.39		7.8417	0.8944	71.64	1.8552	
8.54.0	2191.14		7.8500	0.8949	70.89	1.8506	
8.54.30	2192.38		7.8583	0.8953	69.65	1.8429	
8.55.0	2193.00		7.8667	0.8958	69.03	1.8390	
8.55.30	2194.04		7.8750	0.8963	67.99	1.8324	
8.56.0	2193.11		7.8833	0.8967	68.92	1.8383	
8.56.30	2192.50		7.8917	0.8972	69.53	1.8422	
8.57.0	2193.57		7.9000	0.8976	68.46	1.8354	
8.57.30	2194.01		7.9083	0.8981	68.02	1.8326	
8.58.0	2194.46		7.9167	0.8985	67.57	1.8298	
8.58.30	2194.03		7.9250	0.8990	68.00	1.8325	
8.59.0	2192.75		7.9333	0.8995	69.28	1.8406	
8.59.30	2192.93		7.9417	0.8999	69.10	1.8395	
9.0.0	2195.02		7.9500	0.9004	67.01	1.8261	
9.0.30	2189.99		7.9583	0.9008	72.04	1.8576	
9.1.0	2187.68		7.9667	0.9013	74.35	1.8713	
9.1.30	2187.28		7.9750	0.9017	74.75	1.8736	
9.2.0	2188.65		7.9833	0.9022	73.38	1.8656	
9.2.30	2189.72		7.9917	0.9026	72.31	1.8592	
9.3.0	2190.03		8.0000	0.9031	72.00	1.8573	
9.3.30	2190.90		8.0083	0.9035	71.13	1.8521	
9.4.0	2190.32		8.0167	0.9040	71.71	1.8556	
9.4.30	2191.67		8.0250	0.9044	70.36	1.8473	
9.5.0	2192.99		8.0333	0.9049	69.04	1.8391	
9.5.30	2193.64		8.0417	0.9053	68.39	1.8350	
9.6.0	2193.68		8.0500	0.9058	68.35	1.8347	
9.6.30	2194.90		8.0583	0.9062	67.13	1.8269	
9.7.0	2197.69		8.0667	0.9067	64.34	1.8085	
9.7.30	2199.41		8.0750	0.9071	62.62	1.7967	
9.8.0	2200.92		8.0833	0.9076	61.11	1.7861	
9.8.30	2198.30		8.0917	0.9080	63.73	1.8043	
9.9.0	2197.27		8.1000	0.9085	64.76	1.8113	
9.9.30	2197.64		8.1083	0.9089	64.39	1.8088	
9.10.0	2198.03		8.1167	0.9094	64.00	1.8062	
9.10.30	2199.63		8.1250	0.9098	62.40	1.7952	
9.11.0	2202.22		8.1333	0.9103	59.81	1.7768	
9.11.30	2206.42		8.1417	0.9107	55.61	1.7452	
9.12.0	2201.33		8.1500	0.9112	60.70	1.7832	
9.12.30	2200.69		8.1583	0.9116	61.34	1.7877	

PRESSION & TEMPERATURE CALCULATIONS

DATE

26

REMARKS

LOG DEL.P

DEL.P  
PSIA

LOG DEL.T

DEL.T  
(HOURS)

TEMP.  
DEG.F

PRESS.  
PSIA

TIME  
HR.MN.SS

9.13.0	2199.89	8.1667	0.9120	62.14	1.7934
9.13.30	2199.75	8.1750	0.9125	62.28	1.7943
9.14.0	2201.65	8.1833	0.9129	60.38	1.7809
9.14.30	2200.83	8.1917	0.9134	61.20	1.7868
9.15.0	2201.51	8.2000	0.9138	60.52	1.7819
9.15.30	2201.27	8.2083	0.9143	60.76	1.7836
9.16.0	2201.37	8.2167	0.9147	60.66	1.7829
9.16.30	2200.61	8.2250	0.9151	61.42	1.7883
9.17.0	2197.70	8.2333	0.9156	64.33	1.8084
9.17.30	2194.86	8.2417	0.9160	67.17	1.8272
9.18.0	2192.02	8.2500	0.9165	70.01	1.8452
9.18.30	2190.74	8.2583	0.9169	71.29	1.8530
9.19.0	2188.27	8.2667	0.9173	73.76	1.8678
9.19.30	2184.96	8.2750	0.9178	77.07	1.8869
9.20.0	2183.43	8.2833	0.9182	78.60	1.8954
9.20.30	2180.40	8.2917	0.9186	81.63	1.9118
9.21.0	2178.89	8.3000	0.9191	83.14	1.9198
9.21.30	2178.21	8.3083	0.9195	83.82	1.9233
9.22.0	2178.10	8.3167	0.9199	83.93	1.9239
9.22.30	2177.72	8.3250	0.9204	84.31	1.9259
9.23.0	2177.55	8.3333	0.9208	84.48	1.9268
9.23.30	2177.61	8.3417	0.9213	84.42	1.9264
9.24.0	2177.67	8.3500	0.9217	84.36	1.9261
9.24.30	2178.01	8.3583	0.9221	84.02	1.9244
9.25.0	2178.11	8.3667	0.9226	83.92	1.9239
9.25.30	2177.88	8.3750	0.9230	84.15	1.9251
9.26.0	2177.61	8.3833	0.9234	84.42	1.9264
9.26.30	2177.79	8.3917	0.9238	84.24	1.9255
9.27.0	2177.64	8.4000	0.9243	84.39	1.9263
9.27.30	2177.58	8.4083	0.9247	84.45	1.9266
9.28.0	2177.59	8.4167	0.9251	84.44	1.9265
9.28.30	2177.84	8.4250	0.9256	84.19	1.9253
9.29.0	2178.17	8.4333	0.9260	83.86	1.9236
9.29.30	2177.94	8.4417	0.9264	84.09	1.9247
9.30.0	2178.25	8.4500	0.9269	83.78	1.9231
9.30.30	2178.41	8.4583	0.9273	83.62	1.9223
9.31.0	2178.57	8.4667	0.9277	83.46	1.9215
9.31.30	2178.67	8.4750	0.9281	83.36	1.9210
9.32.0	2178.96	8.4833	0.9286	83.07	1.9194
9.32.30	2179.42	8.4917	0.9290	82.61	1.9170
9.33.0	2179.62	8.5000	0.9294	82.41	1.9160
9.33.30	2179.93	8.5083	0.9298	82.10	1.9143

TEMPERATURE CALCULATIONS

7

REMARKS

LOG DEL.P

DEL.P  
PSIA

LOG DEL.T

DEL.T  
(HOURS)

TEMP.  
DEG.F

PRESS.  
PSIA

TIME  
HR.MN.SS

TIME HR.MN.SS	PRESS. PSIA	TEMP. DEG.F	DEL.T (HOURS)	LOG DEL.T	DEL.P PSIA	LOG DEL.P	REMARKS
9.34.0	2180.26		8.5167	0.9303	81.77	1.9126	
9.34.30	2179.77		8.5250	0.9307	82.26	1.9152	
9.35.0	2177.64		8.5333	0.9311	84.39	1.9263	
9.35.30	2176.60		8.5417	0.9315	85.43	1.9316	
9.36.0	2176.17		8.5500	0.9320	85.86	1.9338	
9.36.30	2176.23		8.5583	0.9324	85.80	1.9335	
9.37.0	2176.08		8.5667	0.9328	85.95	1.9342	
9.37.30	2176.48		8.5750	0.9332	85.55	1.9322	
9.38.0	2176.73		8.5833	0.9337	85.30	1.9309	
9.38.30	2177.02		8.5917	0.9341	85.01	1.9295	
9.39.0	2177.49		8.6000	0.9345	84.54	1.9271	
9.39.30	2178.01		8.6083	0.9349	84.02	1.9244	
9.40.0	2178.15		8.6167	0.9353	83.88	1.9237	
9.40.30	2178.28		8.6250	0.9358	83.75	1.9230	
9.41.0	2178.09		8.6333	0.9362	83.94	1.9240	
9.41.30	2178.34		8.6417	0.9366	83.69	1.9227	
9.42.0	2178.65		8.6500	0.9370	83.38	1.9211	
9.42.30	2178.98		8.6583	0.9374	83.05	1.9193	
9.43.0	2179.39		8.6667	0.9379	82.64	1.9172	
9.43.30	2179.15		8.6750	0.9383	82.88	1.9184	
9.44.0	2179.11		8.6833	0.9387	82.92	1.9187	
9.44.30	2179.17		8.6917	0.9391	82.86	1.9183	
9.45.0	2179.21		8.7000	0.9395	82.82	1.9181	
9.45.30	2179.33		8.7083	0.9399	82.70	1.9175	
9.46.0	2178.61		8.7167	0.9404	83.42	1.9213	
9.46.30	2178.17		8.7250	0.9408	83.86	1.9236	
9.47.0	2178.07		8.7333	0.9412	83.96	1.9241	
9.47.30	2178.36		8.7417	0.9416	83.67	1.9226	
9.48.0	2178.71		8.7500	0.9420	83.32	1.9207	
9.48.30	2179.29		8.7583	0.9424	82.74	1.9177	
9.49.0	2179.31		8.7667	0.9428	82.72	1.9176	
9.49.30	2179.44		8.7750	0.9432	82.59	1.9169	
9.50.0	2179.66		8.7833	0.9437	82.37	1.9158	
9.50.30	2179.11		8.7917	0.9441	82.92	1.9187	
9.51.0	2178.42		8.8000	0.9445	83.61	1.9223	
9.51.30	2178.53		8.8083	0.9449	83.50	1.9217	
9.52.0	2178.65		8.8167	0.9453	83.38	1.9211	
9.52.30	2179.13		8.8250	0.9457	82.90	1.9186	
9.53.0	2179.71		8.8333	0.9461	82.32	1.9155	
9.53.30	2179.97		8.8417	0.9465	82.06	1.9141	
9.54.0	2180.37		8.8500	0.9469	81.66	1.9120	
9.54.30	2180.49		8.8583	0.9474	81.54	1.9114	

schlumberger PRESSURE & TEMPERATURE CALCULATIONS

REMARKS

TIME HR. MN. SS	PRESS. PSIA	TEMP. DEG. F	DEL. T (HOURS)	LOG DEL. T	DEL. P PSIA	LOG DEL. P	REMARKS
9.55.0	2180.06		8.8667	0.9478	81.97	1.9137	
9.55.30	2179.40		8.8750	0.9482	82.63	1.9171	
9.56.0	2179.33		8.8833	0.9486	82.70	1.9175	
9.56.30	2179.60		8.8917	0.9490	82.43	1.9161	
9.57.0	2179.81		8.9000	0.9494	82.22	1.9150	
9.57.30	2180.04		8.9083	0.9498	81.99	1.9138	
9.58.0	2180.55		8.9167	0.9502	81.48	1.9111	
9.58.30	2180.64		8.9250	0.9506	81.39	1.9106	
9.59.0	2180.88		8.9333	0.9510	81.15	1.9093	
9.59.30	2181.42		8.9417	0.9514	80.61	1.9064	
10.0.0	2181.65		8.9500	0.9518	80.38	1.9051	
10.0.30	2182.15		8.9583	0.9522	79.88	1.9024	
10.1.0	2182.58		8.9667	0.9526	79.45	1.9001	
10.1.30	2182.39		8.9750	0.9530	79.64	1.9011	
10.2.0	2182.44		8.9833	0.9534	79.59	1.9009	
10.2.30	2182.13		8.9917	0.9538	79.90	1.9025	
10.3.0	2182.06		9.0000	0.9542	79.97	1.9029	
10.3.30	2182.42		9.0083	0.9546	79.61	1.9010	
10.4.0	2182.52		9.0167	0.9550	79.51	1.9004	
10.4.30	2182.40		9.0250	0.9554	79.63	1.9011	
10.5.0	2182.48		9.0333	0.9558	79.55	1.9006	
10.5.30	2182.64		9.0417	0.9562	79.39	1.8998	
10.6.0	2183.10		9.0500	0.9566	78.93	1.8972	
10.6.30	2183.41		9.0583	0.9570	78.62	1.8955	
10.7.0	2183.57		9.0667	0.9574	78.46	1.8946	
10.7.30	2184.09		9.0750	0.9578	77.94	1.8918	
10.8.0	2184.30		9.0833	0.9582	77.73	1.8906	
10.8.30	2184.49		9.0917	0.9586	77.54	1.8895	
10.9.0	2184.10		9.1000	0.9590	77.93	1.8917	
10.9.30	2183.48		9.1083	0.9594	78.55	1.8951	
10.10.0	2183.48		9.1167	0.9598	78.55	1.8951	
10.10.30	2183.57		9.1250	0.9602	78.46	1.8946	
10.11.0	2183.94		9.1333	0.9606	78.09	1.8926	
10.11.30	2183.57		9.1417	0.9610	78.46	1.8946	
10.12.0	2183.47		9.1500	0.9614	78.56	1.8952	
10.12.30	2183.74		9.1583	0.9618	78.29	1.8937	
10.13.0	2183.47		9.1667	0.9622	78.56	1.8952	
10.13.30	2183.54		9.1750	0.9626	78.49	1.8948	
10.14.0	2183.45		9.1833	0.9630	78.58	1.8953	
10.14.30	2182.29		9.1917	0.9634	79.74	1.9017	
10.15.0	2181.28		9.2000	0.9638	80.75	1.9071	
10.15.30	2181.09		9.2083	0.9642	80.94	1.9082	

PRESSURE & TEMPERATURE CALCULATIONS

REMARKS

LOG DEL.P

DEL.P  
PSIA

LOG DEL.T

DEL.T  
(HOURS)

TEMP.  
DEG.F

PRESS.  
PSIA

TIME  
HR. MN. SS

10.16.0	2182.15	9.2167	0.9646	79.88	1.9024
10.16.30	2184.07	9.2250	0.9650	77.96	1.8919
10.17.0	2187.71	9.2333	0.9654	74.32	1.8711
10.17.30	2191.81	9.2417	0.9658	70.22	1.8465
10.18.0	2195.04	9.2500	0.9661	66.99	1.8260
10.18.30	2195.75	9.2583	0.9665	66.28	1.8214
10.19.0	2196.74	9.2667	0.9669	65.29	1.8148
10.19.30	2196.50	9.2750	0.9673	65.53	1.8164
10.20.0	2197.76	9.2833	0.9677	64.27	1.8080
10.20.30	2196.28	9.2917	0.9681	65.75	1.8179
10.21.0	2197.35	9.3000	0.9685	64.68	1.8108
10.21.30	2199.90	9.3083	0.9689	62.13	1.7933
10.22.0	2200.21	9.3167	0.9693	61.82	1.7911
10.22.30	2201.25	9.3250	0.9696	60.78	1.7838
10.23.0	2200.80	9.3333	0.9700	61.23	1.7870
10.23.30	2200.89	9.3417	0.9704	61.14	1.7863
10.24.0	2199.49	9.3500	0.9708	62.54	1.7962
10.24.30	2198.77	9.3583	0.9712	63.26	1.8011
10.25.0	2198.61	9.3667	0.9716	63.42	1.8022
10.25.30	2197.74	9.3750	0.9720	64.29	1.8081
10.26.0	2198.43	9.3833	0.9724	63.60	1.8035
10.26.30	2198.81	9.3917	0.9727	63.22	1.8009
10.27.0	2199.81	9.4000	0.9731	62.22	1.7939
10.27.30	2200.12	9.4083	0.9735	61.91	1.7918
10.28.0	2200.65	9.4167	0.9739	61.38	1.7880
10.28.30	2201.79	9.4250	0.9743	60.24	1.7799
10.29.0	2202.02	9.4333	0.9747	60.01	1.7782
10.29.30	2200.45	9.4417	0.9750	61.58	1.7894
10.30.0	2199.70	9.4500	0.9754	62.33	1.7947
10.30.30	2199.54	9.4583	0.9758	62.49	1.7958
10.31.0	2201.30	9.4667	0.9762	60.73	1.7834
10.31.30	2201.65	9.4750	0.9766	60.38	1.7809
10.32.0	2201.25	9.4833	0.9770	60.78	1.7838
10.32.30	2202.91	9.4917	0.9773	59.12	1.7717
10.33.0	2203.29	9.5000	0.9777	58.74	1.7689
10.33.30	2203.33	9.5083	0.9781	58.70	1.7686
10.34.0	2204.31	9.5167	0.9785	57.72	1.7613
10.34.30	2203.93	9.5250	0.9789	58.10	1.7642
10.35.0	2203.90	9.5333	0.9792	58.13	1.7644
10.35.30	2203.88	9.5417	0.9796	58.15	1.7645
10.36.0	2203.30	9.5500	0.9800	58.73	1.7689
10.36.30	2202.48	9.5583	0.9804	59.55	1.7749

PRESSURE & TEMPERATURE CALCULATIONS

REMARKS

LOG DEL.P

DEL.P  
PSIA

LOG DEL.T

DEL.T  
(HOURS)

TEMP.  
DEG.F

PRESS.  
PSIA

TIME  
HR.MN.SS

10.37.0	2202.13	9.5667	0.9808	59.90	1.7774
10.37.30	2202.91	9.5750	0.9811	59.12	1.7717
10.38.0	2203.23	9.5833	0.9815	58.80	1.7694
10.38.30	2204.41	9.5917	0.9819	57.62	1.7606
10.39.0	2205.69	9.6000	0.9823	56.34	1.7508
10.39.30	2206.81	9.6083	0.9826	55.22	1.7421
10.40.0	2207.71	9.6167	0.9830	54.32	1.7350
10.40.30	2208.95	9.6250	0.9834	53.08	1.7249
10.41.0	2208.85	9.6333	0.9838	53.18	1.7257
10.41.30	2208.54	9.6417	0.9842	53.49	1.7283
10.42.0	2208.96	9.6500	0.9845	53.07	1.7248
10.42.30	2209.56	9.6583	0.9849	52.47	1.7199
10.43.0	2208.85	9.6667	0.9853	53.18	1.7257
10.43.30	2208.46	9.6750	0.9857	53.57	1.7289
10.44.0	2209.12	9.6833	0.9860	52.91	1.7235
10.44.30	2210.01	9.6917	0.9864	52.02	1.7162
10.45.0	2211.36	9.7000	0.9868	50.67	1.7048
10.45.30	2209.54	9.7083	0.9871	52.49	1.7201
10.46.0	2207.74	9.7167	0.9875	54.29	1.7347
10.46.30	2207.01	9.7250	0.9879	55.02	1.7405
10.47.0	2206.91	9.7333	0.9883	55.12	1.7413
10.47.30	2207.63	9.7417	0.9886	54.40	1.7356
10.48.0	2209.52	9.7500	0.9890	52.51	1.7202
10.48.30	2211.01	9.7583	0.9894	51.02	1.7077
10.49.0	2212.13	9.7667	0.9897	49.90	1.6981
10.49.30	2212.82	9.7750	0.9901	49.21	1.6921
10.50.0	2214.74	9.7833	0.9905	47.29	1.6748
10.50.30	2211.04	9.7917	0.9909	50.99	1.7075
10.51.0	2204.82	9.8000	0.9912	57.21	1.7575
10.51.30	2200.66	9.8083	0.9916	61.37	1.7880
10.52.0	2198.41	9.8167	0.9920	63.62	1.8036
10.52.30	2197.91	9.8250	0.9923	64.12	1.8070
10.53.0	2197.94	9.8333	0.9927	64.09	1.8068
10.53.30	2197.03	9.8417	0.9931	65.00	1.8129
10.54.0	2196.05	9.8500	0.9934	65.98	1.8194
10.54.30	2195.01	9.8583	0.9938	67.02	1.8262
10.55.0	2185.55	9.8667	0.9942	76.48	1.8835
10.55.30	2180.32	9.8750	0.9945	81.71	1.9123
10.56.0	2177.48	9.8833	0.9949	84.55	1.9271
10.56.30	2175.65	9.8917	0.9953	86.38	1.9364
10.57.0	2174.84	9.9000	0.9956	87.19	1.9405
10.57.30	2174.19	9.9083	0.9960	87.84	1.9437

PRESSURE & TEMPERATURE CALCULATIONS

DATE

31

REMARKS

LOG DEL.P

DEL.P  
PSIA

LOG DEL.T

DEL.T  
(HOURS)

TEMP.  
DEG.F

PRESS.  
PSIA

TIME  
HR.MN.SS

10.58.0	2174.27	9.9167	0.9964	87.76	1.9433
10.58.30	2174.57	9.9250	0.9967	87.46	1.9418
10.59.0	2174.56	9.9333	0.9971	87.47	1.9419
10.59.30	2174.76	9.9417	0.9975	87.27	1.9409
11.0.0	2174.78	9.9500	0.9978	87.25	1.9408
11.0.30	2175.00	9.9583	0.9982	87.03	1.9397
11.1.0	2175.28	9.9667	0.9985	86.75	1.9383
11.1.30	2175.91	9.9750	0.9989	86.12	1.9351
11.2.0	2176.15	9.9833	0.9993	85.88	1.9339
11.2.30	2176.58	9.9917	0.9996	85.45	1.9317
11.3.0	2176.65	10.0000	1.0000	85.38	1.9314
11.3.30	2176.81	10.0083	1.0004	85.22	1.9305
11.4.0	2177.07	10.0167	1.0007	84.96	1.9292
11.4.30	2177.32	10.0250	1.0011	84.71	1.9279
11.5.0	2177.63	10.0333	1.0014	84.40	1.9263
11.5.30	2178.00	10.0417	1.0018	84.03	1.9244
11.6.0	2178.43	10.0500	1.0022	83.60	1.9222
11.6.30	2178.95	10.0583	1.0025	83.08	1.9195
11.7.0	2179.29	10.0667	1.0029	82.74	1.9177
11.7.30	2179.89	10.0750	1.0032	82.14	1.9146
11.8.0	2180.23	10.0833	1.0036	81.80	1.9128
11.8.30	2180.52	10.0917	1.0040	81.51	1.9112
11.9.0	2180.41	10.1000	1.0043	81.62	1.9118
11.9.30	2180.21	10.1083	1.0047	81.82	1.9129
11.10.0	2180.58	10.1167	1.0050	81.45	1.9109
11.10.30	2181.16	10.1250	1.0054	80.87	1.9078
11.11.0	2181.63	10.1333	1.0058	80.40	1.9053
11.11.30	2182.03	10.1417	1.0061	80.00	1.9031
11.12.0	2182.19	10.1500	1.0065	79.84	1.9022
11.12.30	2182.63	10.1583	1.0068	79.40	1.8998
11.13.0	2183.06	10.1667	1.0072	78.97	1.8975
11.13.30	2183.68	10.1750	1.0075	78.35	1.8940
11.14.0	2184.45	10.1833	1.0079	77.58	1.8897
11.14.30	2185.03	10.1917	1.0082	77.00	1.8865
11.15.0	2184.67	10.2000	1.0086	77.36	1.8885
11.15.30	2184.51	10.2083	1.0090	77.52	1.8894
11.16.0	2184.53	10.2167	1.0093	77.50	1.8893
11.16.30	2184.61	10.2250	1.0097	77.42	1.8889
11.17.0	2184.71	10.2333	1.0100	77.32	1.8883
11.17.30	2183.97	10.2417	1.0104	78.06	1.8924
11.18.0	2183.62	10.2500	1.0107	78.41	1.8944
11.18.30	2183.78	10.2583	1.0111	78.25	1.8935

PRESSURE & TEMPERATURE CALCULATIONS

REMARKS

TIME HR. MN. SS	PRESS. PSIA	TEMP. DEG. F	DEL. T (HOURS)	LOG DEL. T	DEL. P PSIA	LOG DEL. P	REMARKS
11.19.0	2184.34		10.2667	1.0114	77.69	1.8904	
11.19.30	2184.86		10.2750	1.0118	77.17	1.8874	
11.20.0	2185.44		10.2833	1.0121	76.59	1.8842	
11.20.30	2185.67		10.2917	1.0125	76.36	1.8829	
11.21.0	2184.63		10.3000	1.0128	77.40	1.8887	
11.21.30	2183.23		10.3083	1.0132	78.80	1.8965	
11.22.0	2182.32		10.3167	1.0135	79.71	1.9015	
11.22.30	2182.58		10.3250	1.0139	79.45	1.9001	
11.23.0	2182.83		10.3333	1.0142	79.20	1.8987	
11.23.30	2183.45		10.3417	1.0146	78.58	1.8953	
11.24.0	2183.91		10.3500	1.0149	78.12	1.8928	
11.24.30	2184.22		10.3583	1.0153	77.81	1.8910	
11.25.0	2183.76		10.3667	1.0156	78.27	1.8936	
11.25.30	2182.92		10.3750	1.0160	79.11	1.8982	
11.26.0	2182.77		10.3833	1.0163	79.26	1.8991	
11.26.30	2182.83		10.3917	1.0167	79.20	1.8987	
11.27.0	2183.10		10.4000	1.0170	78.93	1.8972	
11.27.30	2183.29		10.4083	1.0174	78.74	1.8962	
11.28.0	2183.58		10.4167	1.0177	78.45	1.8946	
11.28.30	2184.43		10.4250	1.0181	77.60	1.8899	
11.29.0	2184.32		10.4333	1.0184	77.71	1.8905	
11.29.30	2184.38		10.4417	1.0188	77.65	1.8901	
11.30.0	2184.47		10.4500	1.0191	77.56	1.8896	
11.30.30	2185.31		10.4583	1.0195	76.72	1.8849	
11.31.0	2185.38		10.4667	1.0198	76.65	1.8845	
11.31.30	2185.27		10.4750	1.0202	76.76	1.8851	
11.32.0	2185.00		10.4833	1.0205	77.03	1.8867	
11.32.30	2184.97		10.4917	1.0208	77.06	1.8868	
11.33.0	2184.87		10.5000	1.0212	77.16	1.8874	
11.33.30	2184.87		10.5083	1.0215	77.16	1.8874	
11.34.0	2185.04		10.5167	1.0219	76.99	1.8864	
11.34.30	2185.12		10.5250	1.0222	76.91	1.8860	
11.35.0	2185.29		10.5333	1.0226	76.74	1.8850	
11.35.30	2185.62		10.5417	1.0229	76.41	1.8832	
11.36.0	2186.76		10.5500	1.0233	75.27	1.8766	
11.36.30	2187.63		10.5583	1.0236	74.40	1.8716	
11.37.0	2187.64		10.5667	1.0239	74.39	1.8715	
11.37.30	2189.29		10.5750	1.0243	72.74	1.8618	
11.38.0	2191.20		10.5833	1.0246	70.83	1.8502	
11.38.30	2192.32		10.5917	1.0250	69.71	1.8433	
11.39.0	2193.42		10.6000	1.0253	68.61	1.8364	
11.39.30	2194.79		10.6083	1.0256	67.24	1.8276	

PRECIPITATION CALCULATIONS

SE

DEL.P

LOG DEL.P

DEL.P

PSIA

LOG DEL.T

DEL.T

(HOURS)

TEMP.

DEG.F

TIME

HR.MN.SS

PRESS.

PSIA

TEMP.

DEG.F

DEL.T

(HOURS)

LOG DEL.T

LOG DEL.P

TIME	HR.MN.SS	PRESS.	TEMP.	DEL.T	LOG DEL.T	DEL.P	LOG DEL.P	REMARKS
		PSIA	DEG.F	(HOURS)		PSIA		
11.40.	0	2196.73		10.6167	1.0260	65.30	1.8149	
11.40.	30	2197.04		10.6250	1.0263	64.99	1.8128	
11.41.	0	2193.76		10.6333	1.0267	68.27	1.8342	
11.41.	30	2185.79		10.6417	1.0270	76.24	1.8822	
11.42.	0	2180.15		10.6500	1.0273	81.88	1.9132	
11.42.	30	2175.76		10.6583	1.0277	86.27	1.9359	
11.43.	0	2172.83		10.6667	1.0280	89.20	1.9504	
11.43.	30	2170.92		10.6750	1.0284	91.11	1.9596	
11.44.	0	2169.74		10.6833	1.0287	92.29	1.9652	
11.44.	30	2169.09		10.6917	1.0290	92.94	1.9682	
11.45.	0	2168.40		10.7000	1.0294	93.63	1.9714	
11.45.	30	2167.98		10.7083	1.0297	94.05	1.9734	
11.46.	0	2167.91		10.7167	1.0301	94.12	1.9737	
11.46.	30	2167.92		10.7250	1.0304	94.11	1.9736	
11.47.	0	2167.98		10.7333	1.0307	94.05	1.9734	
11.47.	30	2167.62		10.7417	1.0311	94.41	1.9750	
11.48.	0	2167.82		10.7500	1.0314	94.21	1.9741	
11.48.	30	2167.12		10.7583	1.0317	94.91	1.9773	
11.49.	0	2166.85		10.7667	1.0321	95.18	1.9785	
11.49.	30	2167.30		10.7750	1.0324	94.73	1.9765	
11.50.	0	2167.80		10.7833	1.0328	94.23	1.9742	
11.50.	30	2168.06		10.7917	1.0331	93.97	1.9730	
11.51.	0	2167.64		10.8000	1.0334	94.39	1.9749	
11.51.	30	2166.63		10.8083	1.0338	95.40	1.9795	
11.52.	0	2166.71		10.8167	1.0341	95.32	1.9792	
11.52.	30	2167.14		10.8250	1.0344	94.89	1.9772	
11.53.	0	2167.43		10.8333	1.0348	94.60	1.9759	
11.53.	30	2167.18		10.8417	1.0351	94.85	1.9770	
11.54.	0	2165.95		10.8500	1.0354	96.08	1.9826	
11.54.	30	2165.72		10.8583	1.0358	96.31	1.9837	
11.55.	0	2165.70		10.8667	1.0361	96.33	1.9838	
11.55.	30	2165.82		10.8750	1.0364	96.21	1.9832	
11.56.	0	2165.63		10.8833	1.0368	96.40	1.9841	
11.56.	30	2165.45		10.8917	1.0371	96.58	1.9849	
11.57.	0	2165.40		10.9000	1.0374	96.63	1.9851	
11.57.	30	2165.13		10.9083	1.0378	96.90	1.9863	
11.58.	0	2164.40		10.9167	1.0381	97.63	1.9896	
11.58.	30	2163.97		10.9250	1.0384	98.06	1.9915	
11.59.	0	2164.17		10.9333	1.0388	97.86	1.9906	
11.59.	30	2164.50		10.9417	1.0391	97.53	1.9891	
12. 0.	0	2163.65		10.9500	1.0394	98.38	1.9929	
12. 0.	30	2163.75		10.9583	1.0397	98.28	1.9925	

12. 1. 0	2164.08	10.9667	1.0401	97.95	1.9910
12. 1. 30	2164.70	10.9750	1.0404	97.33	1.9882
12. 2. 0	2164.24	10.9833	1.0407	97.79	1.9903
12. 2. 30	2164.22	10.9917	1.0411	97.81	1.9904
12. 3. 0	2164.72	11.0000	1.0414	97.31	1.9882
12. 3. 30	2165.05	11.0083	1.0417	96.98	1.9867
12. 4. 0	2165.09	11.0167	1.0421	96.94	1.9865
12. 4. 30	2164.94	11.0250	1.0424	97.09	1.9872
12. 5. 0	2165.01	11.0333	1.0427	97.02	1.9869
12. 5. 30	2165.05	11.0417	1.0430	96.98	1.9867
12. 6. 0	2165.25	11.0500	1.0434	96.78	1.9858
12. 6. 30	2164.70	11.0583	1.0437	97.33	1.9882
12. 7. 0	2165.26	11.0667	1.0440	96.77	1.9857
12. 7. 30	2165.44	11.0750	1.0443	96.59	1.9849
12. 8. 0	2165.40	11.0833	1.0447	96.63	1.9851
12. 8. 30	2164.22	11.0917	1.0450	97.81	1.9904
12. 9. 0	2164.34	11.1000	1.0453	97.69	1.9899
12. 9. 30	2164.65	11.1083	1.0456	97.38	1.9885
12.10. 0	2164.90	11.1167	1.0460	97.13	1.9874
12.10. 30	2165.13	11.1250	1.0463	96.90	1.9863
12.11. 0	2164.92	11.1333	1.0466	97.11	1.9873
12.11. 30	2165.61	11.1417	1.0470	96.42	1.9842
12.12. 0	2166.39	11.1500	1.0473	95.64	1.9806
12.12. 30	2148.84	11.1583	1.0476	113.19	2.0538
12.13. 0	2141.79	11.1667	1.0479	120.24	2.0800
12.13. 30	2139.03	11.1750	1.0482	123.00	2.0899
12.14. 0	2137.01	11.1833	1.0486	125.02	2.0970
12.14. 30	2131.14	11.1917	1.0489	130.89	2.1169
12.15. 0	2099.33	11.2000	1.0492	162.70	2.2114
12.15. 30	2098.05	11.2083	1.0495	163.98	2.2148
12.16. 0	2085.79	11.2167	1.0499	176.24	2.2461
12.16. 30	2058.42	11.2250	1.0502	203.61	2.3088
12.17. 0	2052.31	11.2333	1.0505	209.72	2.3216
12.17. 30	2050.00	11.2417	1.0508	212.03	2.3264
12.18. 0	2047.92	11.2500	1.0512	214.11	2.3306
12.18. 30	2046.22	11.2583	1.0515	215.81	2.3341
12.19. 0	2047.95	11.2667	1.0518	214.08	2.3306
12.19. 30	2052.66	11.2750	1.0521	209.37	2.3209
12.20. 0	2055.72	11.2833	1.0524	206.31	2.3145
12.20. 30	2058.61	11.2917	1.0528	203.42	2.3084
12.21. 0	2061.10	11.3000	1.0531	200.93	2.3030
12.21. 30	2061.78	11.3083	1.0534	200.25	2.3016

CHANGE TO 1"ADJ.CHOK

CHANGE TO 1 1/2"  
FIX.CHOKE

CHANGE TO 1 1/4"  
ADJ.CHOKE

CHANGE TO 1 1/4"  
FIX. CHOKE

PRESSURE & TEMPERATURE CALCULATIONS

TIME HR. MN. SS	PRESS. PSIA	TEMP. DEG. F	DEL. T (HOURS)	LOG DEL. T	DEL. P PSIA	LOG DEL. P	REMARKS
12.22.0	2065.78		11.3167	1.0537	196.25	2.2928	
12.22.30	2065.98		11.3250	1.0540	196.05	2.2924	
12.23.0	2059.77		11.3333	1.0544	202.26	2.3059	
12.23.30	2065.02		11.3417	1.0547	197.01	2.2945	
12.24.0	2080.03		11.3500	1.0550	182.00	2.2601	
12.24.30	2088.30		11.3583	1.0553	173.73	2.2399	
12.25.0	2093.74		11.3667	1.0556	168.29	2.2261	
12.25.30	2097.60		11.3750	1.0560	164.43	2.2160	
12.26.0	2100.82		11.3833	1.0563	161.21	2.2074	
12.26.30	2103.15		11.3917	1.0566	158.88	2.2011	
12.27.0	2104.03		11.4000	1.0569	158.00	2.1987	
12.27.30	2103.71		11.4083	1.0572	158.32	2.1995	
12.28.0	2104.68		11.4167	1.0575	157.35	2.1969	
12.28.30	2105.17		11.4250	1.0579	156.86	2.1955	
12.29.0	2104.14		11.4333	1.0582	157.89	2.1984	
12.29.30	2105.03		11.4417	1.0585	157.00	2.1959	
12.30.0	2105.24		11.4500	1.0588	156.79	2.1953	
12.30.30	2104.15		11.4583	1.0591	157.88	2.1983	
12.31.0	2105.23		11.4667	1.0594	156.80	2.1953	
12.31.30	2105.57		11.4750	1.0598	156.46	2.1944	
12.32.0	2105.70		11.4833	1.0601	156.33	2.1940	
12.32.30	2105.59		11.4917	1.0604	156.44	2.1943	
12.33.0	2104.66		11.5000	1.0607	157.37	2.1969	
12.33.30	2105.18		11.5083	1.0610	156.85	2.1955	
12.34.0	2105.50		11.5167	1.0613	156.53	2.1946	
12.34.30	2105.35		11.5250	1.0616	156.68	2.1950	
12.35.0	2104.67		11.5333	1.0620	157.36	2.1969	
12.35.30	2105.50		11.5417	1.0623	156.53	2.1946	
12.36.0	2105.57		11.5500	1.0626	156.46	2.1944	
12.36.30	2105.08		11.5583	1.0629	156.95	2.1958	
12.37.0	2105.61		11.5667	1.0632	156.42	2.1943	
12.37.30	2106.07		11.5750	1.0635	155.96	2.1930	
12.38.0	2106.01		11.5833	1.0638	156.02	2.1932	
12.38.30	2105.39		11.5917	1.0641	156.64	2.1949	
12.39.0	2105.89		11.6000	1.0645	156.14	2.1935	
12.39.30	2106.47		11.6083	1.0648	155.56	2.1919	
12.40.0	2106.29		11.6167	1.0651	155.74	2.1924	
12.40.30	2105.78		11.6250	1.0654	156.25	2.1938	
12.41.0	2106.59		11.6333	1.0657	155.44	2.1916	
12.41.30	2106.77		11.6417	1.0660	155.26	2.1911	
12.42.0	2106.74		11.6500	1.0663	155.29	2.1911	
12.42.30	2107.00		11.6583	1.0666	155.03	2.1904	

PRESSURE & TEMPERATURE CALCULATIONS

REMARKS

LOG DEL.P

DEL.P  
PSIA

LOG DEL.T

DEL.T  
(HOURS)

TEMP.  
DEG.F

PRESS.  
PSIA

TIME  
HR.MN.SS

12.43.0	2107.65	11.6667	1.0669	154.38	2.1886
12.43.30	2107.79	11.6750	1.0673	154.24	2.1882
12.44.0	2107.09	11.6833	1.0676	154.94	2.1902
12.44.30	2107.94	11.6917	1.0679	154.09	2.1878
12.45.0	2108.02	11.7000	1.0682	154.01	2.1875
12.45.30	2108.37	11.7083	1.0685	153.66	2.1866
12.46.0	2107.63	11.7167	1.0688	154.40	2.1886
12.46.30	2108.62	11.7250	1.0691	153.41	2.1859
12.47.0	2109.18	11.7333	1.0694	152.85	2.1843
12.47.30	2109.26	11.7417	1.0697	152.77	2.1840
12.48.0	2109.47	11.7500	1.0700	152.56	2.1834
12.48.30	2109.20	11.7583	1.0703	152.83	2.1842
12.49.0	2109.45	11.7667	1.0707	152.58	2.1835
12.49.30	2110.07	11.7750	1.0710	151.96	2.1817
12.50.0	2110.27	11.7833	1.0713	151.76	2.1812
12.50.30	2109.82	11.7917	1.0716	152.21	2.1824
12.51.0	2110.75	11.8000	1.0719	151.28	2.1798
12.51.30	2111.52	11.8083	1.0722	150.51	2.1776
12.52.0	2111.43	11.8167	1.0725	150.60	2.1778
12.52.30	2111.75	11.8250	1.0728	150.28	2.1769
12.53.0	2111.35	11.8333	1.0731	150.68	2.1781
12.53.30	2111.50	11.8417	1.0734	150.53	2.1776
12.54.0	2111.86	11.8500	1.0737	150.17	2.1766
12.54.30	2112.21	11.8583	1.0740	149.82	2.1756
12.55.0	2112.36	11.8667	1.0743	149.67	2.1751
12.55.30	2112.50	11.8750	1.0746	149.53	2.1747
12.56.0	2113.02	11.8833	1.0749	149.01	2.1732
12.56.30	2112.86	11.8917	1.0752	149.17	2.1737
12.57.0	2112.72	11.9000	1.0755	149.31	2.1741
12.57.30	2111.98	11.9083	1.0759	150.05	2.1762
12.58.0	2112.60	11.9167	1.0762	149.43	2.1744
12.58.30	2112.89	11.9250	1.0765	149.14	2.1736
12.59.0	2113.02	11.9333	1.0768	149.01	2.1732
12.59.30	2112.61	11.9417	1.0771	149.42	2.1744
13.0.0	2113.48	11.9500	1.0774	148.55	2.1719
13.0.30	2114.04	11.9583	1.0777	147.99	2.1702
13.1.0	2114.12	11.9667	1.0780	147.91	2.1700
13.1.30	2113.26	11.9750	1.0783	148.77	2.1725
13.2.0	2114.38	11.9833	1.0786	147.65	2.1692
13.2.30	2114.34	11.9917	1.0789	147.69	2.1694
13.3.0	2114.19	12.0000	1.0792	147.84	2.1698
13.3.30	2113.76	12.0083	1.0795	148.27	2.1711

REMARKS

LOG DEL.P

DEL.P  
PSIA

LOG DEL.T

DEL.T  
(HOURS)

TEMP.  
DEG.F

PRESS.  
PSIA

TIME  
HR. MIN. SS

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13. 4. 0	2112.85	12.0167	1.0798	149.18	2.1737
13. 4. 30	2113.22	12.0250	1.0801	148.81	2.1726
13. 5. 0	2113.38	12.0333	1.0804	148.65	2.1722
13. 7. 0	2113.65	12.0667	1.0816	148.38	2.1714
13. 9. 0	2113.05	12.1000	1.0828	148.98	2.1731
13.11. 0	2112.58	12.1333	1.0840	149.45	2.1745
13.13. 0	2111.83	12.1667	1.0852	150.20	2.1767
13.15. 0	2112.00	12.2000	1.0864	150.03	2.1762
13.17. 0	2111.87	12.2333	1.0875	150.16	2.1766
13.19. 0	2111.91	12.2667	1.0887	150.12	2.1764
13.21. 0	2111.58	12.3000	1.0899	150.45	2.1774
13.23. 0	2111.52	12.3333	1.0911	150.51	2.1776
13.25. 0	2111.67	12.3667	1.0923	150.36	2.1771
13.27. 0	2112.37	12.4000	1.0934	149.66	2.1751
13.29. 0	2111.69	12.4333	1.0946	150.34	2.1771
13.31. 0	2111.21	12.4667	1.0958	150.82	2.1785
13.33. 0	2111.13	12.5000	1.0969	150.90	2.1787
13.35. 0	2110.84	12.5333	1.0981	151.19	2.1795
13.37. 0	2111.29	12.5667	1.0992	150.74	2.1782
13.39. 0	2111.75	12.6000	1.1004	150.28	2.1769
13.41. 0	2110.94	12.6333	1.1015	151.09	2.1792
13.43. 0	2110.40	12.6667	1.1027	151.63	2.1808
13.45. 0	2111.62	12.7000	1.1038	150.41	2.1775
13.47. 0	2111.15	12.7333	1.1049	150.88	2.1786
13.49. 0	2111.26	12.7667	1.1061	150.77	2.1783
13.51. 0	2111.40	12.8000	1.1072	150.63	2.1779
13.53. 0	2110.90	12.8333	1.1083	151.13	2.1794
13.55. 0	2110.79	12.8667	1.1095	151.24	2.1797
13.57. 0	2111.42	12.9000	1.1106	150.61	2.1779
13.59. 0	2111.29	12.9333	1.1117	150.74	2.1782
14. 1. 0	2111.40	12.9667	1.1128	150.63	2.1779
14. 3. 0	2111.08	13.0000	1.1139	150.95	2.1788
14. 5. 0	2111.76	13.0333	1.1151	150.27	2.1769
14. 7. 0	2111.37	13.0667	1.1162	150.66	2.1780
14. 9. 0	2109.62	13.1000	1.1173	152.41	2.1830
14.11. 0	2110.11	13.1333	1.1184	151.92	2.1816
14.13. 0	2111.06	13.1667	1.1195	150.97	2.1789
14.15. 0	2111.09	13.2000	1.1206	150.94	2.1788
14.17. 0	2113.98	13.2333	1.1217	148.05	2.1704
14.19. 0	2112.48	13.2667	1.1228	149.55	2.1748
14.21. 0	2112.61	13.3000	1.1239	149.42	2.1744
14.23. 0	2112.64	13.3333	1.1249	149.39	2.1743

SCUMBERGER  
PRESSURE & TEMPERATURE CALCULATIONS

REMARKS

LOG DEL.P

DEL.P  
PSIA

LOG DEL.T

DEL.T  
(HOURS)

TEMP.  
DEG.F

PRESS.  
PSIA

TIME  
HR.MN.SS

14.25.0	2112.12	13.3667	1.1260	149.91	2.1758
14.27.0	2113.20	13.4000	1.1271	148.83	2.1727
14.29.0	2112.02	13.4333	1.1282	150.01	2.1761
14.31.0	2112.66	13.4667	1.1293	149.37	2.1743
14.33.0	2112.02	13.5000	1.1303	150.01	2.1761
14.35.0	2112.56	13.5333	1.1314	149.47	2.1746
14.37.0	2111.79	13.5667	1.1325	150.24	2.1768
14.39.0	2111.79	13.6000	1.1335	150.24	2.1768
14.41.0	2109.29	13.6333	1.1346	152.74	2.1840
14.43.0	2109.74	13.6667	1.1357	152.29	2.1827
14.45.0	2109.22	13.7000	1.1367	152.81	2.1842
14.47.0	2109.72	13.7333	1.1378	152.31	2.1827
14.49.0	2109.85	13.7667	1.1388	152.18	2.1824
14.51.0	2109.20	13.8000	1.1399	152.83	2.1842
14.53.0	2110.22	13.8333	1.1409	151.81	2.1813
14.55.0	2110.28	13.8667	1.1420	151.75	2.1811
14.57.0	2109.93	13.9000	1.1430	152.10	2.1821
14.59.0	2109.79	13.9333	1.1441	152.24	2.1825
15.1.0	2110.36	13.9667	1.1451	151.67	2.1809
15.3.0	2110.13	14.0000	1.1461	151.90	2.1816
15.5.0	2109.45	14.0333	1.1472	152.58	2.1835
15.7.0	2110.57	14.0667	1.1482	151.46	2.1803
15.9.0	2110.97	14.1000	1.1492	151.06	2.1791
15.11.0	2114.60	14.1333	1.1502	147.43	2.1686
15.13.0	2120.77	14.1667	1.1513	141.26	2.1500
15.15.0	2113.40	14.2000	1.1523	148.63	2.1721
15.17.0	2112.84	14.2333	1.1533	149.19	2.1737
15.19.0	2110.63	14.2667	1.1543	151.40	2.1801
15.21.0	2112.51	14.3000	1.1553	149.52	2.1747
15.23.0	2115.35	14.3333	1.1563	146.68	2.1664
15.25.0	2118.12	14.3667	1.1574	143.91	2.1581
15.27.0	2115.10	14.4000	1.1584	146.93	2.1671
15.27.30	2113.84	14.4083	1.1586	148.19	2.1708
15.28.0	2112.38	14.4167	1.1589	149.65	2.1751
15.28.30	2111.74	14.4250	1.1591	150.29	2.1769
15.29.0	2111.11	14.4333	1.1594	150.92	2.1787
15.29.30	2112.29	14.4417	1.1596	149.74	2.1753
15.30.0	2112.65	14.4500	1.1599	149.38	2.1743
15.30.30	2073.60	14.4583	1.1601	188.43	2.2752
15.31.0	2051.93	14.4667	1.1604	210.10	2.3224
15.31.30	2037.24	14.4750	1.1606	224.79	2.3518
15.32.0	2030.28	14.4833	1.1609	231.75	2.3650

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CHANGE TO 1 1/2"  
ADJ. CHOKE

PRESSURE & TEMPERATURE CALCULATIONS

REMARKS

TIME HR. MN. SS	PRESS. PSIA	TEMP. DEG. F	DEL. T (HOURS)	LOG DEL. T	DEL. P PSIA	LOG DEL. P	REMARKS
15.32.30	2026.97		14.4917	1.1611	235.06	2.3712	
15.33.0	2025.39		14.5000	1.1614	236.64	2.3741	
15.33.30	2024.86		14.5083	1.1616	237.17	2.3751	
15.34.0	2023.72		14.5167	1.1619	238.31	2.3771	
15.34.30	2032.14		14.5250	1.1621	229.89	2.3615	
15.35.0	2041.00		14.5333	1.1624	221.03	2.3445	
15.35.30	2047.58		14.5417	1.1626	214.45	2.3313	
15.36.0	2052.83		14.5500	1.1629	209.20	2.3206	
15.36.30	2057.13		14.5583	1.1631	204.90	2.3115	
15.37.0	2059.47		14.5667	1.1634	202.56	2.3066	
15.37.30	2062.41		14.5750	1.1636	199.62	2.3002	
15.38.0	2064.78		14.5833	1.1639	197.25	2.2950	
15.38.30	2066.89		14.5917	1.1641	195.14	2.2903	
15.39.0	2067.30		14.6000	1.1644	194.73	2.2894	
15.39.30	2068.48		14.6083	1.1646	193.55	2.2868	
15.40.0	2069.31		14.6167	1.1648	192.72	2.2849	
15.40.30	2070.63		14.6250	1.1651	191.40	2.2819	
15.41.0	2068.99		14.6333	1.1653	193.04	2.2856	
15.41.30	2069.07		14.6417	1.1656	192.96	2.2855	
15.42.0	2070.71		14.6500	1.1658	191.32	2.2818	
15.42.30	2072.09		14.6583	1.1661	189.94	2.2786	
15.43.0	2073.39		14.6667	1.1663	188.64	2.2756	
15.43.30	2074.07		14.6750	1.1666	187.96	2.2741	
15.44.0	2069.12		14.6833	1.1668	192.91	2.2854	
15.44.30	2065.37		14.6917	1.1671	196.66	2.2937	
15.45.0	2065.50		14.7000	1.1673	196.53	2.2934	
15.45.30	2066.51		14.7083	1.1676	195.52	2.2912	
15.46.0	2067.56		14.7167	1.1678	194.47	2.2889	
15.46.30	2069.44		14.7250	1.1681	192.59	2.2846	
15.47.0	2067.39		14.7333	1.1683	194.64	2.2892	
15.47.30	2066.69		14.7417	1.1685	195.34	2.2908	
15.48.0	2067.67		14.7500	1.1688	194.36	2.2886	
15.48.30	2068.89		14.7583	1.1690	193.14	2.2859	
15.49.0	2070.40		14.7667	1.1693	191.63	2.2825	
15.49.30	2072.70		14.7750	1.1695	189.33	2.2772	
15.50.0	2074.19		14.7833	1.1698	187.84	2.2738	
15.50.30	2074.20		14.7917	1.1700	187.83	2.2738	
15.51.0	2073.08		14.8000	1.1703	188.95	2.2763	
15.51.30	2073.31		14.8083	1.1705	188.72	2.2758	
15.52.0	2073.23		14.8167	1.1708	188.80	2.2760	
15.52.30	2074.14		14.8250	1.1710	187.89	2.2739	
15.53.0	2075.65		14.8333	1.1712	186.38	2.2704	

CHANGE TO 1 1/2"  
FIX. CHOKE

15.53.30	2076.54	14.8417	1.1715	185.49	2.2683
15.54.0	2076.19	14.8500	1.1717	185.84	2.2691
15.54.30	2077.33	14.8583	1.1720	184.70	2.2665
15.55.0	2077.95	14.8667	1.1722	184.08	2.2650
15.55.30	2078.11	14.8750	1.1725	183.92	2.2646
15.56.0	2076.00	14.8833	1.1727	186.03	2.2696
15.56.30	2077.08	14.8917	1.1729	184.95	2.2671
15.57.0	2079.04	14.9000	1.1732	182.99	2.2624
15.57.30	2076.33	14.9083	1.1734	185.70	2.2688
15.58.0	2066.54	14.9167	1.1737	195.49	2.2911
15.58.30	2058.42	14.9250	1.1739	203.61	2.3098
15.59.0	2052.15	14.9333	1.1742	209.88	2.3220
15.59.30	2047.22	14.9417	1.1744	214.81	2.3321
16.0.0	2043.53	14.9500	1.1746	218.50	2.3395
16.0.30	2041.20	14.9583	1.1749	220.83	2.3441
16.1.0	2039.44	14.9667	1.1751	222.59	2.3475
16.1.30	2039.35	14.9750	1.1754	222.68	2.3477
16.2.0	2038.85	14.9833	1.1756	223.18	2.3487
16.2.30	2034.33	14.9917	1.1758	227.70	2.3574
16.3.0	2035.96	15.0000	1.1761	226.07	2.3542
16.3.30	2037.00	15.0083	1.1763	225.03	2.3522
16.4.0	2037.41	15.0167	1.1766	224.62	2.3514
16.4.30	2037.75	15.0250	1.1768	224.28	2.3508
16.5.0	2038.07	15.0333	1.1771	223.96	2.3502
16.5.30	2038.17	15.0417	1.1773	223.86	2.3500
16.6.0	2038.36	15.0500	1.1775	223.67	2.3496
16.6.30	2038.21	15.0583	1.1778	223.82	2.3499
16.7.0	2038.49	15.0667	1.1780	223.54	2.3494
16.7.30	2038.65	15.0750	1.1783	223.38	2.3490
16.8.0	2038.65	15.0833	1.1785	223.38	2.3490
16.8.30	2038.67	15.0917	1.1787	223.36	2.3490
16.9.0	2038.67	15.1000	1.1790	223.36	2.3490
16.9.30	2038.64	15.1083	1.1792	223.39	2.3491
16.10.0	2038.68	15.1167	1.1795	223.35	2.3490
16.10.30	2038.56	15.1250	1.1797	223.47	2.3492
16.11.0	2038.61	15.1333	1.1799	223.42	2.3491
16.11.30	2038.43	15.1417	1.1802	223.60	2.3495
16.12.0	2038.53	15.1500	1.1804	223.50	2.3493
16.12.30	2038.51	15.1583	1.1807	223.52	2.3493
16.13.0	2038.34	15.1667	1.1809	223.69	2.3496
16.13.30	2038.48	15.1750	1.1811	223.55	2.3494
16.14.0	2038.42	15.1833	1.1814	223.61	2.3495

TIME HR.MN.SS	PRESS. PSIA	TEMP. DEG.F	DEL.T (HOURS)	LOG DEL.T	DEL.P PSIA	LOG DEL.P	REMARKS
16.14.30	2038.49		15.1917	1.1816	223.54	2.3494	
16.15.0	2038.39		15.2000	1.1818	223.64	2.3495	
16.15.30	2037.85		15.2083	1.1821	224.18	2.3506	
16.16.0	2038.14		15.2167	1.1823	223.89	2.3500	
16.16.30	2038.28		15.2250	1.1826	223.75	2.3498	
16.17.0	2038.34		15.2333	1.1828	223.69	2.3496	
16.17.30	2038.11		15.2417	1.1830	223.92	2.3501	
16.18.0	2037.97		15.2500	1.1833	224.06	2.3504	
16.18.30	2038.32		15.2583	1.1835	223.71	2.3497	
16.19.0	2038.26		15.2667	1.1837	223.77	2.3498	
16.19.30	2038.38		15.2750	1.1840	223.65	2.3496	
16.20.0	2038.38		15.2833	1.1842	223.65	2.3496	
16.20.30	2038.03		15.2917	1.1845	224.00	2.3502	
16.21.0	2038.32		15.3000	1.1847	223.71	2.3497	
16.21.30	2038.05		15.3083	1.1849	223.98	2.3502	
16.22.0	2038.09		15.3167	1.1852	223.94	2.3501	
16.22.30	2038.30		15.3250	1.1854	223.73	2.3497	
16.23.0	2038.31		15.3333	1.1856	223.72	2.3497	
16.23.30	2038.10		15.3417	1.1859	223.93	2.3501	
16.24.0	2038.14		15.3500	1.1861	223.89	2.3500	
16.26.0	2038.05		15.3833	1.1871	223.98	2.3502	
16.28.0	2038.25		15.4167	1.1880	223.78	2.3498	
16.30.0	2038.21		15.4500	1.1889	223.82	2.3499	
16.32.0	2037.86		15.4833	1.1899	224.17	2.3506	
16.34.0	2037.82		15.5167	1.1908	224.21	2.3507	
16.36.0	2037.92		15.5500	1.1917	224.11	2.3505	
16.38.0	2037.86		15.5833	1.1927	224.17	2.3506	
16.40.0	2037.82		15.6167	1.1936	224.21	2.3507	
16.42.0	2037.92		15.6500	1.1945	224.11	2.3505	
16.44.0	2036.92		15.6833	1.1954	225.11	2.3524	
16.46.0	2037.03		15.7167	1.1964	225.00	2.3522	
16.48.0	2037.30		15.7500	1.1973	224.73	2.3517	
16.50.0	2037.82		15.7833	1.1982	224.21	2.3507	
16.52.0	2037.38		15.8167	1.1991	224.65	2.3515	
16.54.0	2037.96		15.8500	1.2000	224.07	2.3504	
16.56.0	2037.88		15.8833	1.2009	224.15	2.3505	
16.58.0	2037.96		15.9167	1.2019	224.07	2.3504	
17.0.0	2038.45		15.9500	1.2028	223.58	2.3494	
17.2.0	2037.96		15.9833	1.2037	224.07	2.3504	
17.4.0	2037.34		16.0167	1.2046	224.69	2.3516	
17.6.0	2037.67		16.0500	1.2055	224.36	2.3509	
17.8.0	2038.52		16.0833	1.2064	223.51	2.3493	

REMARKS

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LOG DEL.P

DEL.P  
PSIA

LOG DEL.T

DEL.T  
(HOURS)

TEMP.  
DEG.F

PRESS.  
PSIA

TIME  
HR.MN.SS

17.10.0	2039.00	16.1167	1.2073	223.03	2.3484
17.12.0	2040.14	16.1500	1.2082	221.89	2.3461
17.14.0	2039.37	16.1833	1.2091	222.66	2.3476
17.16.0	2041.09	16.2167	1.2100	220.94	2.3443
17.18.0	2041.00	16.2500	1.2109	221.03	2.3445
17.20.0	2041.30	16.2833	1.2117	220.73	2.3439
17.22.0	2041.34	16.3167	1.2126	220.69	2.3438
17.24.0	2041.30	16.3500	1.2135	220.73	2.3439
17.26.0	2040.63	16.3833	1.2144	221.40	2.3452
17.28.0	2042.33	16.4167	1.2153	219.70	2.3418
17.30.0	2042.35	16.4500	1.2162	219.68	2.3418
17.32.0	2041.89	16.4833	1.2170	220.14	2.3427
17.34.0	2041.10	16.5167	1.2179	220.93	2.3443
17.36.0	2040.88	16.5500	1.2188	221.15	2.3447
17.38.0	2040.61	16.5833	1.2197	221.42	2.3452
17.40.0	2039.91	16.6167	1.2205	222.12	2.3466
17.42.0	2041.48	16.6500	1.2214	220.55	2.3435
17.44.0	2042.00	16.6833	1.2223	220.03	2.3425
17.46.0	2041.53	16.7167	1.2231	220.50	2.3434
17.48.0	2042.68	16.7500	1.2240	219.35	2.3411
17.50.0	2043.08	16.7833	1.2249	218.95	2.3403
17.52.0	2043.20	16.8167	1.2257	218.83	2.3401
17.54.0	2042.62	16.8500	1.2266	219.41	2.3413
17.56.0	2043.86	16.8833	1.2275	218.17	2.3388
17.58.0	2042.02	16.9167	1.2283	220.01	2.3424
18.0.0	2042.71	16.9500	1.2292	219.32	2.3411
18.2.0	2043.51	16.9833	1.2300	218.52	2.3395
18.4.0	2043.14	17.0167	1.2309	218.89	2.3402
18.6.0	2043.06	17.0500	1.2317	218.97	2.3404
18.8.0	2044.28	17.0833	1.2326	217.75	2.3380
18.10.0	2043.86	17.1167	1.2334	218.17	2.3388
18.12.0	2043.37	17.1500	1.2343	218.66	2.3398
18.14.0	2045.40	17.1833	1.2351	216.63	2.3357
18.16.0	2045.06	17.2167	1.2359	216.97	2.3364
18.18.0	2044.69	17.2500	1.2368	217.34	2.3371
18.20.0	2044.59	17.2833	1.2376	217.44	2.3373
18.22.0	2044.82	17.3167	1.2385	217.21	2.3369
18.24.0	2044.83	17.3500	1.2393	217.20	2.3369
18.26.0	2043.63	17.3833	1.2401	218.40	2.3393
18.26.30	2045.25	17.3917	1.2403	216.78	2.3360
18.27.0	2046.27	17.4000	1.2405	215.76	2.3340
18.27.30	2046.04	17.4083	1.2408	215.99	2.3344

FLOPETROL  
PRESSURE & TEMPERATURE CALCULATIONS

TIME HR.MN.SS	PRESS. PSIA	TEMP. DEG.F	DEL.T (HOURS)	LOG DEL.T	DEL.P PSIA	LOG DEL.P	REMARKS
18.28.0	2046.58		17.4167	1.2410	215.45	2.3333	
18.28.30	2046.80		17.4250	1.2412	215.23	2.3329	
18.29.0	2046.47		17.4333	1.2414	215.56	2.3336	
18.29.30	2045.54		17.4417	1.2416	216.49	2.3354	
18.30.0	2045.87		17.4500	1.2418	216.16	2.3348	
18.30.30	2046.27		17.4583	1.2420	215.76	2.3340	
18.31.0	2045.79		17.4667	1.2422	216.24	2.3349	
18.31.30	2082.66		0.0083	-2.0792	36.87	1.5667	SHUT IN TIME
18.32.0	2230.34		0.0167	-1.7782	184.55	2.2661	18.31.0
18.32.30	2262.47		0.0250	-1.6021	216.68	2.3358	
18.33.0	2262.64		0.0333	-1.4771	216.85	2.3362	
18.33.30	2262.58		0.0417	-1.3802	216.79	2.3360	
18.34.0	2262.44		0.0500	-1.3010	216.65	2.3358	
18.34.30	2262.30		0.0583	-1.2341	216.51	2.3355	
18.35.0	2262.20		0.0667	-1.1761	216.41	2.3353	
18.35.30	2262.08		0.0750	-1.1249	216.29	2.3350	
18.36.0	2262.04		0.0833	-1.0792	216.25	2.3350	
18.36.30	2261.94		0.0917	-1.0378	216.15	2.3348	
18.37.0	2261.93		0.1000	-1.0000	216.14	2.3347	
18.37.30	2261.91		0.1083	-0.9652	216.11	2.3347	
18.38.0	2261.88		0.1167	-0.9331	216.09	2.3346	
18.38.30	2261.91		0.1250	-0.9031	216.12	2.3347	
18.39.0	2261.91		0.1333	-0.8751	216.12	2.3347	
18.39.30	2261.93		0.1417	-0.8487	216.14	2.3347	
18.40.0	2261.98		0.1500	-0.8239	216.19	2.3348	
18.40.30	2261.98		0.1583	-0.8004	216.19	2.3348	
18.41.0	2261.96		0.1667	-0.7782	216.17	2.3348	
18.41.30	2261.97		0.1750	-0.7570	216.18	2.3348	
18.42.0	2261.99		0.1833	-0.7368	216.20	2.3349	
18.42.30	2261.97		0.1917	-0.7175	216.18	2.3348	
18.43.0	2261.99		0.2000	-0.6990	216.20	2.3349	
18.43.30	2261.95		0.2083	-0.6812	216.16	2.3348	
18.44.0	2261.89		0.2167	-0.6642	216.10	2.3347	
18.44.30	2261.89		0.2250	-0.6478	216.10	2.3347	
18.45.0	2261.87		0.2333	-0.6320	216.08	2.3346	
18.45.30	2261.87		0.2417	-0.6168	216.08	2.3346	
18.46.0	2261.89		0.2500	-0.6021	216.10	2.3347	
18.46.30	2261.91		0.2583	-0.5878	216.12	2.3347	
18.47.0	2261.93		0.2667	-0.5740	216.14	2.3347	
18.47.30	2261.94		0.2750	-0.5607	216.15	2.3348	
18.48.0	2261.97		0.2833	-0.5477	216.18	2.3348	
18.48.30	2261.98		0.2917	-0.5351	216.19	2.3348	

FLOPETROL  
PRESSURE & TEMPERATURE CALCULATIONS

REMARKS

LOG DEL.P

DEL.P  
PSIA

LOG DEL.T

DEL.T  
(HOURS)

TEMP.  
DEG.F

PRESS.  
PSIA

TIME  
HR. MIN. SS

18.49.0	2261.99	0.3000	-0.5229	216.20	2.3349
18.49.30	2261.98	0.3083	-0.5110	216.19	2.3348
18.50.0	2261.99	0.3167	-0.4994	216.20	2.3349
18.50.30	2262.01	0.3250	-0.4881	216.22	2.3349
18.51.0	2262.04	0.3333	-0.4771	216.25	2.3350
18.51.30	2262.07	0.3417	-0.4664	216.28	2.3350
18.52.0	2262.12	0.3500	-0.4559	216.33	2.3351
18.52.30	2262.15	0.3583	-0.4457	216.36	2.3352
18.53.0	2262.18	0.3667	-0.4357	216.39	2.3352
18.53.30	2262.22	0.3750	-0.4260	216.43	2.3353
18.54.0	2262.29	0.3833	-0.4164	216.50	2.3355
18.54.30	2262.30	0.3917	-0.4071	216.51	2.3355
18.55.0	2262.35	0.4000	-0.3979	216.56	2.3356
18.55.30	2262.39	0.4083	-0.3890	216.60	2.3357
18.56.0	2262.44	0.4167	-0.3802	216.65	2.3358
18.56.30	2262.45	0.4250	-0.3716	216.66	2.3358
18.57.0	2262.47	0.4333	-0.3632	216.68	2.3358
18.57.30	2262.51	0.4417	-0.3549	216.72	2.3359
18.58.0	2262.52	0.4500	-0.3468	216.73	2.3359
18.58.30	2262.53	0.4583	-0.3388	216.74	2.3359
18.59.0	2262.51	0.4667	-0.3310	216.73	2.3359
18.59.30	2262.57	0.4750	-0.3233	216.78	2.3360
19.0.0	2262.58	0.4833	-0.3158	216.79	2.3360
19.0.30	2262.61	0.4917	-0.3083	216.82	2.3361
19.1.0	2262.58	0.5000	-0.3010	216.79	2.3360
19.1.30	2262.60	0.5083	-0.2939	216.81	2.3361
19.2.0	2262.61	0.5167	-0.2868	216.82	2.3361
19.2.30	2262.60	0.5250	-0.2798	216.81	2.3361
19.3.0	2262.58	0.5333	-0.2730	216.79	2.3360
19.3.30	2262.61	0.5417	-0.2663	216.82	2.3361
19.4.0	2262.61	0.5500	-0.2596	216.82	2.3361
19.4.30	2262.60	0.5583	-0.2531	216.81	2.3361
19.5.0	2262.58	0.5667	-0.2467	216.79	2.3360
19.5.30	2262.61	0.5750	-0.2403	216.82	2.3361
19.6.0	2262.57	0.5833	-0.2341	216.78	2.3360
19.6.30	2262.58	0.5917	-0.2279	216.79	2.3360
19.7.0	2262.58	0.6000	-0.2218	216.79	2.3360
19.7.30	2262.58	0.6083	-0.2159	216.79	2.3360
19.8.0	2262.59	0.6167	-0.2099	216.80	2.3361
19.8.30	2262.57	0.6250	-0.2041	216.78	2.3360
19.9.0	2262.56	0.6333	-0.1984	216.77	2.3360
19.9.30	2262.58	0.6417	-0.1927	216.79	2.3360

FLOPETROL  
PRESSURE & TEMPERATURE CALCULATIONS

REMARKS

TIME HR. MN. SS	PRESS. PSIA	TEMP. DEG. F	DEL. T (HOURS)	LOG DEL. T	DEL. P PSIA	LOG DEL. P	
19.10. 0	2262.55		0.6500	-0.1871	216.76	2.3360	66
19.15. 0	2262.54		0.7333	-0.1347	216.75	2.3360	
19.20. 0	2262.51		0.8167	-0.0880	216.72	2.3359	
19.25. 0	2262.49		0.9000	-0.0458	216.70	2.3359	
19.30. 0	2262.44		0.9833	-0.0073	216.65	2.3358	67
19.35. 0	2262.44		1.0667	0.0280	216.65	2.3358	
19.40. 0	2262.38		1.1500	0.0607	216.59	2.3356	
19.45. 0	2262.41		1.2333	0.0911	216.62	2.3357	
19.50. 0	2262.31		1.3167	0.1195	216.52	2.3355	
19.55. 0	2262.17		1.4000	0.1461	216.38	2.3352	
20. 0. 0	2262.27		1.4833	0.1712	216.48	2.3354	68
20. 5. 0	2262.45		1.5667	0.1950	216.66	2.3358	
20.10. 0	2262.61		1.6500	0.2175	216.82	2.3361	
20.15. 0	2262.70		1.7333	0.2389	216.91	2.3363	
20.20. 0	2262.50		1.8167	0.2593	216.71	2.3359	69
20.25. 0	2262.52		1.9000	0.2788	216.73	2.3359	
20.30. 0	2262.49		1.9833	0.2974	216.70	2.3359	
20.35. 0	2262.46		2.0667	0.3153	216.67	2.3358	
20.40. 0	2262.42		2.1500	0.3324	216.63	2.3357	70
20.45. 0	2262.34		2.2333	0.3490	216.60	2.3357	
20.50. 0	2262.31		2.3167	0.3649	216.58	2.3356	
20.55. 0	2262.71		2.4000	0.3802	216.92	2.3363	
21. 0. 0	2262.46		2.4833	0.3950	216.67	2.3358	
21. 5. 0	2262.33		2.5667	0.4094	216.54	2.3355	71
21.10. 0	2262.32		2.6500	0.4232	216.53	2.3355	
21.15. 0	2262.50		2.7333	0.4367	216.71	2.3359	
21.20. 0	2262.43		2.8167	0.4497	216.64	2.3357	72
21.25. 0	2262.39		2.9000	0.4624	216.60	2.3357	
21.30. 0	2262.38		2.9833	0.4747	216.59	2.3356	
21.35. 0	2262.37		3.0667	0.4867	216.58	2.3356	
21.40. 0	2262.36		3.1500	0.4983	216.57	2.3356	
21.45. 0	2262.34		3.2333	0.5097	216.55	2.3356	73
21.50. 0	2262.34		3.3167	0.5207	216.55	2.3356	
21.55. 0	2262.32		3.4000	0.5315	216.53	2.3355	
22. 0. 0	2262.29		3.4833	0.5420	216.50	2.3355	
22. 5. 0	2262.28		3.5667	0.5523	216.49	2.3354	
22.10. 0	2262.63		3.6500	0.5623	216.84	2.3361	74
22.15. 0	2262.65		3.7333	0.5721	216.86	2.3362	
22.20. 0	2262.51		3.8167	0.5817	216.72	2.3359	
22.25. 0	2262.40		3.9000	0.5911	216.61	2.3357	
22.30. 0	2262.35		3.9833	0.6002	216.56	2.3356	
22.35. 0	2262.27		4.0667	0.6092	216.48	2.3354	

FLOPETROL  
PRESSURE & TEMPERATURE CALCULATIONS

TIME HR.-MIN.-SS	PRESS. PSIA	TEMP. DEG. F	DEL. T (HOURS)	LOG DEL. T	DEL. P PSIA	LOG DEL. P	REMARKS
22.40. 0	2262.30		4.1500	0.6180	216.51	2.3355	75
22.45. 0	2262.44		4.2333	0.6267	216.65	2.3358	
22.50. 0	2262.38		4.3167	0.6351	216.59	2.3356	
22.55. 0	2262.45		4.4000	0.6435	216.66	2.3358	76
23. 0. 0	2262.46		4.4833	0.6516	216.67	2.3358	
23. 5. 0	2262.39		4.5667	0.6596	216.60	2.3357	
23.10. 0	2262.45		4.6500	0.6675	216.66	2.3358	
23.15. 0	2262.35		4.7333	0.6752	216.56	2.3356	
23.20. 0	2262.41		4.8167	0.6827	216.62	2.3357	
23.25. 0	2262.37		4.9000	0.6902	216.58	2.3356	77
23.30. 0	2262.30		4.9833	0.6975	216.51	2.3355	
23.35. 0	2262.28		5.0667	0.7047	216.49	2.3354	
23.40. 0	2262.33		5.1500	0.7118	216.54	2.3355	
23.45. 0	2262.28		5.2333	0.7188	216.49	2.3354	78
23.50. 0	2262.24		5.3167	0.7256	216.45	2.3354	
23.55. 0	2262.24		5.4000	0.7324	216.45	2.3354	
24. 0. 0	2262.27		5.4833	0.7390	216.48	2.3354	
24. 0. 0	2262.27		5.4833	0.7390	216.48	2.3354	
0. 5. 0	2262.43		5.5667	0.7456	216.64	2.3357	
0.10. 0	2262.42		5.6500	0.7520	216.63	2.3357	79
0.15. 0	2262.34		5.7333	0.7584	216.55	2.3356	
0.20. 0	2262.24		5.8167	0.7647	216.45	2.3354	
0.25. 0	2262.24		5.9000	0.7709	216.45	2.3354	
0.30. 0	2262.21		5.9833	0.7769	216.42	2.3353	80
0.35. 0	2262.21		6.0667	0.7830	216.42	2.3353	
0.40. 0	2262.25		6.1500	0.7889	216.46	2.3354	
0.45. 0	2262.21		6.2333	0.7947	216.42	2.3353	81
0.50. 0	2262.20		6.3167	0.8005	216.41	2.3353	
0.55. 0	2262.21		6.4000	0.8062	216.42	2.3353	
1. 0. 0	2262.22		6.4833	0.8118	216.43	2.3353	
1. 5. 0	2262.19		6.5667	0.8173	216.40	2.3353	
1.10. 0	2262.19		6.6500	0.8228	216.40	2.3353	82
1.15. 0	2262.36		6.7333	0.8282	216.57	2.3356	
1.20. 0	2262.65		6.8167	0.8336	216.86	2.3362	
1.25. 0	2262.54		6.9000	0.8388	216.75	2.3360	
1.30. 0	2262.41		6.9833	0.8441	216.62	2.3357	
1.35. 0	2262.24		7.0667	0.8492	216.45	2.3354	83
1.40. 0	2262.26		7.1500	0.8543	216.47	2.3354	
1.45. 0	2262.45		7.2333	0.8593	216.66	2.3358	
1.50. 0	2262.41		7.3167	0.8643	216.62	2.3357	
1.55. 0	2262.37		7.4000	0.8692	216.58	2.3356	
2. 0. 0	2262.34		7.4833	0.8741	216.55	2.3356	

FLOPETROL  
PRESSURE & TEMPERATURE CALCULATIONS

TIME HR. MN. SS	PRESS. PSIA	TEMP. DEG. F	DEL. T (HOURS)	LOG DEL. T	DEL. P PSIA	LOG DEL. P	REMARKS
2. 5. 0	2262.38		7.5667	0.8789	216.59	2.3356	84
2.10. 0	2262.52		7.6500	0.8837	216.73	2.3359	
2.15. 0	2262.38		7.7333	0.8884	216.59	2.3356	
2.20. 0	2262.30		7.8167	0.8930	216.51	2.3355	
2.25. 0	2262.26		7.9000	0.8976	216.47	2.3354	85
2.30. 0	2262.28		7.9833	0.9022	216.49	2.3354	
2.35. 0	2262.25		8.0667	0.9067	216.46	2.3354	
2.40. 0	2262.21		8.1500	0.9112	216.42	2.3353	
2.45. 0	2262.23		8.2333	0.9156	216.44	2.3353	
2.50. 0	2262.21		8.3167	0.9199	216.42	2.3353	
2.55. 0	2262.21		8.4000	0.9243	216.42	2.3353	
3. 0. 0	2262.17		8.4833	0.9286	216.38	2.3352	
3. 5. 0	2262.20		8.5667	0.9328	216.41	2.3353	
3.10. 0	2262.19		8.6500	0.9370	216.40	2.3353	
3.15. 0	2262.21		8.7333	0.9412	216.42	2.3353	
3.20. 0	2262.21		8.8167	0.9453	216.42	2.3353	
3.25. 0	2262.17		8.9000	0.9494	216.38	2.3352	
3.30. 0	2262.17		8.9833	0.9534	216.38	2.3352	
3.35. 0	2262.20		9.0667	0.9574	216.41	2.3353	86
3.40. 0	2262.57		9.1500	0.9614	216.78	2.3360	
3.45. 0	2262.61		9.2333	0.9654	216.81	2.3361	
3.50. 0	2262.60		9.3167	0.9693	216.81	2.3361	
3.55. 0	2262.58		9.4000	0.9731	216.79	2.3360	89
4. 0. 0	2262.52		9.4833	0.9770	216.73	2.3359	
4. 5. 0	2262.46		9.5667	0.9808	216.67	2.3358	
4.10. 0	2262.38		9.6500	0.9845	216.59	2.3356	
4.15. 0	2262.33		9.7333	0.9883	216.54	2.3355	90
4.20. 0	2262.25		9.8167	0.9920	216.46	2.3354	
4.25. 0	2262.20		9.9000	0.9956	216.41	2.3353	
4.30. 0	2262.21		9.9833	0.9993	216.42	2.3353	
4.35. 0	2262.19		10.0667	1.0029	216.40	2.3353	
4.40. 0	2262.17		10.1500	1.0065	216.38	2.3352	91
4.45. 0	2262.19		10.2333	1.0100	216.40	2.3353	
4.50. 0	2262.17		10.3167	1.0135	216.38	2.3352	
4.55. 0	2262.17		10.4000	1.0170	216.38	2.3352	
5. 0. 0	2262.19		10.4833	1.0205	216.40	2.3353	
5. 5. 0	2262.16		10.5667	1.0239	216.37	2.3352	92
5.10. 0	2262.16		10.6500	1.0273	216.37	2.3352	
5.15. 0	2262.12		10.7333	1.0307	216.33	2.3351	
5.20. 0	2262.10		10.8167	1.0341	216.31	2.3351	
5.25. 0	2262.12		10.9000	1.0374	216.33	2.3351	
5.30. 0	2262.11		10.9833	1.0407	216.32	2.3351	93

FLOPETROL  
PRESSURE & TEMPERATURE CALCULATIONS

TIME HR.-MIN.-SS	PRESS. PSIA	TEMP. DEG.F	DEL.T (HOURS)	LOG DEL.T	DEL.P PSIA	LOG DEL.P	REMARKS
5.35.0	2262.12		11.0667	1.0440	216.33	2.3351	
5.40.0	2262.10		11.1500	1.0473	216.31	2.3351	
5.45.0	2262.12		11.2333	1.0505	216.33	2.3351	94
5.50.0	2262.14		11.3167	1.0537	216.35	2.3352	
5.55.0	2262.12		11.4000	1.0569	216.33	2.3351	
6.0.0	2262.14		11.4833	1.0601	216.35	2.3352	
6.5.0	2262.12		11.5667	1.0632	216.33	2.3351	
6.10.0	2262.10		11.6500	1.0663	216.31	2.3351	
6.15.0	2262.12		11.7333	1.0694	216.33	2.3351	
6.20.0	2262.10		11.8167	1.0725	216.31	2.3351	95
6.25.0	2262.14		11.9000	1.0755	216.35	2.3352	
6.30.0	2262.11		11.9833	1.0786	216.32	2.3351	
6.35.0	2262.15		12.0667	1.0816	216.36	2.3352	96
6.40.0	2262.18		12.1500	1.0846	216.39	2.3352	
6.45.0	2262.15		12.2333	1.0875	216.36	2.3352	
6.50.0	2262.17		12.3167	1.0905	216.38	2.3352	
6.55.0	2262.13		12.4000	1.0934	216.34	2.3351	
7.0.0	2262.13		12.4833	1.0963	216.34	2.3351	97
7.5.0	2262.13		12.5667	1.0992	216.34	2.3351	
7.10.0	2262.57		12.6500	1.1021	216.72	2.3359	
7.15.0	2262.46		12.7333	1.1049	216.69	2.3358	
7.20.0	2262.34		12.8167	1.1078	216.55	2.3356	98
7.25.0	2262.07		12.9000	1.1106	216.28	2.3350	
7.30.0	2262.04		12.9833	1.1134	216.25	2.3350	
7.35.0	2262.21		13.0667	1.1162	216.42	2.3353	
7.40.0	2262.50		13.1500	1.1189	216.71	2.3359	
7.45.0	2262.53		13.2333	1.1217	216.74	2.3359	99
7.50.0	2262.51		13.3167	1.1244	216.72	2.3359	
7.55.0	2262.52		13.4000	1.1271	216.73	2.3359	
8.0.0	2262.42		13.4833	1.1298	216.63	2.3357	
8.5.0	2262.38		13.5667	1.1325	216.59	2.3356	100
8.10.0	2262.32		13.6500	1.1351	216.53	2.3355	
8.15.0	2262.25		13.7333	1.1378	216.46	2.3354	
8.20.0	2262.58		13.8167	1.1404	216.79	2.3360	
8.25.0	2262.42		13.9000	1.1430	216.63	2.3357	
8.30.0	2262.38		13.9833	1.1456	216.59	2.3356	-10
8.35.0	2262.36		14.0667	1.1482	216.57	2.3356	
8.40.0	2262.40		14.1500	1.1508	216.61	2.3357	
8.45.0	2262.43		14.2333	1.1533	216.64	2.3357	
8.50.0	2262.30		14.3167	1.1558	216.51	2.3355	-11
8.55.0	2262.17		14.4000	1.1584	216.38	2.3352	
9.0.0	2262.08		14.4833	1.1609	216.29	2.3350	

FLOPETROL  
PRESSURE & TEMPERATURE CALCULATIONS

TIME HR. MN. SS	PRESS. PSIA	TEMP. DEG. F	DEL. T (HOURS)	LOG DEL. T	DEL. P PSIA	LOG DEL. P	REMARKS
9. 5. 0	2262.07		14.5667	1.1634	216.28	2.3350	
9.10. 0	2262.09		14.6500	1.1658	216.30	2.3351	-12
9.15. 0	2262.13		14.7333	1.1683	216.34	2.3351	
9.20. 0	2262.14		14.8167	1.1708	216.35	2.3352	
9.25. 0	2262.14		14.9000	1.1732	216.35	2.3352	
9.30. 0	2262.27		14.9833	1.1756	216.48	2.3354	
9.35. 0	2262.43		15.0667	1.1780	216.64	2.3357	
9.40. 0	2262.41		15.1500	1.1804	216.62	2.3357	-13
9.45. 0	2262.37		15.2333	1.1828	216.58	2.3356	
9.50. 0	2262.31		15.3167	1.1852	216.52	2.3355	
9.55. 0	2262.48		15.4000	1.1875	216.69	2.3358	
10. 0. 0	2262.63		15.4833	1.1899	216.84	2.3361	-14
10. 5. 0	2262.40		15.5667	1.1922	216.61	2.3357	
10.10. 0	2262.50		15.6500	1.1945	216.71	2.3359	
10.15. 0	2262.50		15.7333	1.1968	216.71	2.3359	
10.20. 0	2244.92		15.8167	1.1991	199.13	2.2991	-15

GAUGE DROPEL WHEN PULLING OUT OF THE NIPPEL

# TECHNICAL DATA

## GAUGE

Type : S.S.D.R.  
Transducer module : 81057  
Processor module : 81065  
Recorder module : 82130

## OPERATION SET UP

Delay time : —  
Scanning rate : 30 sec.

## CALIBRATION DATA

### Before job:

Ambient pressure : 14,6 PSIA  
Ambient temperature : 21 °C

### After job:

Ambient pressure : - PSIA  
Ambient temperature : - °C

Date last calibration : 05/07.1983

\*\*\*\*\*  
\* LISTING OF ALL DATA \*  
\* ON TAPE \*  
\*\*\*\*\*

TEMPERATURE IN DEG F  
PRESSURE IN PSI A

FILE IN 111.011 00  
S.S.D.R.81057

**FILE**  
**Schlumberger**

19.4230	7024.73	19.4330	7042.20	19.4400	7039.00	19.4430	7042.10
19.4500	7039.70	19.4530	7037.05	19.4630	7027.09	19.4700	7044.03
19.4700	7021.7	19.4730	7004.04	19.4800	7003.42	19.4900	7004.70
19.4930	7003.57	19.5000	7004.70	19.5100	7003.00	19.5130	7004.09
19.5200	7003.76	19.5200	7001.7	19.5300	7000.23	19.5330	7009.57
19.5400	7000.09	19.5430	7000.79	19.5500	7000.14	19.5530	7007.05
19.5630	7000.59	19.5700	7000.49	19.5730	7000.15	19.5800	7007.75
19.5900	7000.31	19.5930	7000.37	20.0000	7000.37	20.0030	7007.73
20.0100	7000.29	20.0130	7000.37	20.0200	7000.37	20.0230	7000.45
20.0300	7000.49	20.0330	7000.53	20.0400	7000.53	20.0430	7000.45

**FILE**

20.0530	7007.07	20.0600	7000.53	20.0700	7007.90	20.0730	7007.97
20.0730	7007.90	20.0800	7000.00	20.0900	7007.97	20.0930	7007.97
20.1000	7007.90	20.1100	7007.90	20.1130	7000.54	20.1200	7007.00
20.1200	7007.90	20.1230	7000.53	20.1300	7007.05	20.1400	7000.49
20.1430	7007.00	20.1500	7000.23	20.1530	7000.17	20.1630	7007.50
20.1700	7000.23	20.1730	7000.05	20.1800	7000.01	20.1830	7007.90
20.1900	7007.32	20.1930	7007.70	20.2000	7007.09	20.2100	7007.02
20.2130	7007.00	20.2200	7007.44	20.2230	7000.00	20.2300	7000.02
20.2330	7000.70	20.2400	7000.02	20.2500	7000.00	20.2530	7000.00
20.2600	7007.20	20.2630	7007.20	20.2700	7000.04	20.2730	7007.21

**FILE**

20.2800	7000.01	20.2830	7000.51	20.2900	7000.40	20.2930	7000.43
20.3030	7000.37	20.3100	7000.32	20.3130	7000.32	20.3200	7000.50
20.3230	7000.00	20.3300	7001.71	20.3330	7001.71	20.3400	7001.70
20.3500	7001.71	20.3530	7001.71	20.3600	7001.70	20.3700	7001.00
20.3700	7001.71	20.3730	7001.07	20.3800	7001.07	20.3900	7001.00
20.3930	7000.00	20.4000	7000.90	20.4030	7000.70	20.4130	7000.07
20.4200	7000.73	20.4200	7000.00	20.4230	7000.20	20.4330	7000.05
20.4400	7000.00	20.4430	7000.57	20.4500	7000.70	20.4530	7000.05
20.4630	7001.71	20.4700	7001.71	20.4700	7000.00	20.4800	7001.07
20.4830	7004.27	20.4900	7003.51	20.4930	7003.04	20.5000	7003.09

**FILE**

20.5100	7003.44	20.5130	7003.10	20.5200	7004.09	20.5230	7003.55
20.5300	7003.55	20.5330	7003.55	20.5400	7003.51	20.5430	7003.24
20.5530	7003.00	20.5600	7003.04	20.5630	7004.00	20.5700	7003.00
20.5730	7003.44	20.5800	7003.05	20.5830	7003.77	20.5900	7004.01
21.0000	7003.50	21.0030	7004.20	21.0100	7003.04	21.0200	7003.50
21.0200	7003.50	21.0230	7003.00	21.0300	7003.25	21.0400	7002.20
21.0430	7007.52	21.0500	7009.04	21.0530	7000.34	21.0630	7000.53
21.0700	7007.05	21.0730	7009.4	21.0800	7002.45	21.0830	7000.41
21.0900	7002.40	21.0930	7002.32	21.1000	7002.05	21.1030	7001.90
21.1130	7001.70	21.1200	7001.70	21.1200	7001.33	21.1230	7001.90

**FILE**

21.1330	7001.22	21.1400	7001.70	21.1430	7000.50	21.1500	7001.57
21.1600	7000.45	21.1630	7001.74	21.1700	7001.42	21.1730	7000.00
21.1800	7001.07	21.1830	7001.11	21.1900	7001.73	21.1930	7001.04
21.2030	7002.13	21.2100	7001.08	21.2130	7001.37	21.2200	7001.90
21.2300	7001.53	21.2330	7001.59	21.2400	7007.95	21.2430	7007.49
21.2500	7001.07	21.2530	7000.03	21.2600	7000.71	21.2630	7000.05
21.2700	7001.07	21.2730	7000.07	21.2800	7009.90	21.2830	7000.40
21.2930	7000.10	21.3000	7000.71	21.3030	7003.57	21.3100	7000.40

FILE  
FLORENZA  
Schlumberger

21.3030	5255.32	21.3700	5254.06	21.3700temp 177.6	21.3730	5253.07	21.3600	5244.50
21.3630	5244.14	21.3900	5245.45	21.3930	5245.44	21.4000	21.4030	5249.94
21.4100	5230.61	21.4130	5249.39	21.4200	5253.13	21.4200temp 176.9	21.4230	5217.19
21.4300	5220.76	21.4330	5226.05	21.4400	5215.76	21.4430	21.4500	5255.31
21.4500	5255.50	21.4600	5215.77	21.4630	5255.26	21.4700	21.4700temp 176.9	
21.4730	6209.64	21.4800	6491.05	21.4830	6531.39	21.4900	21.4930	6491.01
21.5000	6461.50	21.5030	7770.38	21.5100	7444.79	21.5130	21.5200	3903.26
21.5200temp 173.7		21.5230	3599.41	21.5300	3624.30	21.5330	21.5400	3583.80
21.5430	3975.17	21.5500	3979.99	21.5530	3693.35	21.5600	21.5630	6524.87
21.5700	6503.99	21.5700temp 193.5		21.5730	6176.39	21.5800	21.5830	5247.63

FILE

21.5900	5201.67	21.5930	5151.46	22.0000	5121.45	22.0030	22.0100	5245.00
22.0130	5235.05	22.0200	5093.32	22.0200temp 166.4	22.0230	5092.69	22.0300	5094.51
22.0330	5092.50	22.0400	5093.11	22.0430	5092.00	22.0500	22.0530	5094.49
22.0600	5097.32	22.0630	5254.00	22.0700	5257.71	22.0730temp 169.2	22.0730	5094.08
22.0800	5103.35	22.0830	5204.57	22.0900	5266.30	22.0930	22.1000	6049.37
22.1030	2723.53	22.1100	2045.91	22.1130	7670.67	22.1200	22.1200temp 60.5	
22.1230	7513.22	22.1300	7403.12	22.1330	6231.32	22.1400	22.1430	7311.02
22.1500	7552.31	22.1530	7292.22	22.1600	7309.46	22.1630	22.1700	7326.90
22.1700temp 64.7		22.1730	7625.54	22.1800	7731.86	22.1830	22.1900	2416.20
22.1930	2733.53	22.2000	2727.95	22.2030	2053.62	22.2100	22.2130	2734.01

FILE

22.2200	2723.83	22.2200temp 60.4		22.2230	2726.35	22.2300	22.2330	2617.32
22.2400	2636.04	22.2430	2646.92	22.2500	2679.30	22.2530	22.2600	2696.52
22.2630	2696.54	22.2700	2715.21	22.2700temp 60.4		22.2730	22.2800	2726.30
22.2800	2575.12	22.2900	2567.09	22.2930	2562.06	22.3000	22.3030	2557.74
22.3100	2550.90	22.3130	2557.67	22.3200	2577.66	22.3200temp 60.5	22.3230	2552.05
22.3300	2571.66	22.3330	2554.92	22.3400	2556.10	22.3430	22.3500	2570.05
22.3530	2560.35	22.3600	2574.11	22.3630	2545.22	22.3700	22.3700temp 63.3	
22.3730	2550.13	22.3800	2554.43	22.3830	2553.46	22.3900	22.3930	2575.03
22.4000	2556.50	22.4030	2555.70	22.4100	2546.52	22.4130	22.4200	2556.42
22.4200temp 50.7		22.4230	2710.64	22.4300	2706.36	22.4330	22.4400	2730.91

FILE

22.4430	2715.00	22.4500	2711.79	22.4530	2709.63	22.4600	22.4630	2710.05
22.4700	2709.76	22.4700temp 50.1		22.4730	2712.32	22.4800	22.4830	2724.29
22.4900	2735.12	22.4930	2734.79	22.5000	2730.94	22.5030	22.5100	2660.09
22.5130	2730.55	22.5200	2736.73	22.5200temp 57.0		22.5230	22.5300	2716.50
22.5330	2710.37	22.5400	2695.55	22.5430	2696.47	22.5500	22.5530	2642.50
22.5600	2645.05	22.5630	2641.49	22.5700	2655.61	22.5700temp 57.7	22.5730	2534.94
22.5800	2409.45	22.5830	2681.46	22.5900	2732.63	22.5930	23.0000	7650.44
23.0030	7666.21	23.0100	7664.01	23.0130	7633.63	23.0200	23.0200temp 60.4	
23.0230	7746.67	23.0300	7752.94	23.0330	7746.77	23.0400	23.0430	7754.20
23.0500	7712.65	23.0530	7714.33	23.0600	7713.06	23.0630	23.0700	7667.94

FILE

23.0700temp 50.5		23.0730	7634.35	23.0800	2734.66	23.0830	23.0900	2660.00
23.0930	2694.51	23.1000	2674.09	23.1030	2653.51	23.1100	23.1130	2617.64
23.1200	2644.69	23.1200temp 60.9		23.1230	2627.66	23.1300	23.1330	2616.06
23.1400	2616.47	23.1430	2679.33	23.1500	2623.44	23.1530	23.1600	2661.74
23.1630	2699.41	23.1700	2199.16	23.1700temp 57.0		23.1730	23.1800	2221.13
23.1830	2241.66	23.1900	2260.95	23.1930	2256.50	23.2000	23.2030	2260.97
23.2100	2216.76	23.2130	2239.50	23.2200	2241.62	23.2200temp 56.1	23.2230	2239.75
23.2300	2260.66	23.2330	2359.06	23.2400	2359.09	23.2430	23.2500	2409.41
23.2530	2416.76	23.2600	2295.17	23.2630	2326.42	23.2700	23.2700temp 59.5	

FILED

ROSEL  
Schlumberger

14  
 23.3000 2074.48  
 23.3200Temp 59.0  
 23.3430 2736.98  
 23.3700 2083.08  
 23.3900 2004.97  
 23.4130 2092.12  
 23.4330 2105.11  
 23.4500 2126.12  
 23.4600 2147.93  
 23.5030 2173.77  
 23.3030 2656.98  
 23.3230 2714.15  
 23.3500 2677.87  
 23.3700Temp 49.0  
 23.3930 2060.12  
 23.4200 2094.03  
 23.4400 2109.90  
 23.4630 2132.86  
 23.4830 2152.93  
 23.5100 2178.97  
 23.3100 2729.06  
 23.3300 2686.99  
 23.3530 2062.77  
 23.3730 2085.55  
 23.4000 2087.31  
 23.4200Temp 64.0  
 23.4430 2114.03  
 23.4700 2137.56  
 23.4900 2157.80  
 23.5130 2184.57  
 23.3130 2003.90  
 23.3330 2096.83  
 23.3600 2074.68  
 23.3830 2083.99  
 23.4100 2090.12  
 23.4300 2101.79  
 23.4530 2123.18  
 23.4730 2142.72  
 23.5000 2168.94  
 23.5200Temp 94.5  
 23.3130 2211.49  
 23.3330 2230.96  
 23.3600 2234.03  
 0.0100 2241.33  
 0.0300 2244.89  
 0.0530 2248.30  
 0.0700 2240.06  
 0.1000 2250.44  
 0.1200Temp 130.1  
 0.1430 2249.44  
 23.3100 2247.34  
 0.1330 2253.94  
 0.2100 2250.71  
 0.2300 2241.40  
 0.2530 2250.87  
 0.2730 2247.02  
 0.3000 2250.55  
 0.3200Temp 134.1  
 0.3430 2249.13  
 0.3700 2256.10  
 0.3930 2257.71  
 0.4200 2252.52  
 0.4400 2261.43  
 0.4630 2249.52  
 0.4800 2261.95  
 0.5100 2247.24  
 0.5300 2262.01  
 0.5530 2249.27  
 0.5700Temp 134.4  
 0.5930 2240.60  
 1.0200Temp 134.2  
 1.0430 2250.94  
 1.0700 2260.31  
 1.0930 2257.35  
 1.1130 2216.69  
 1.1330 2213.76  
 1.1600 2204.39  
 1.1830 2205.20  
 1.2000Temp 134.4

FILED

15  
 23.3230 2195.70  
 23.3430 2221.43  
 23.3700Temp 106.7  
 23.3930 2250.70  
 0.0200 2243.72  
 0.0400 2240.71  
 0.0630 2243.50  
 0.0900 2249.74  
 0.1100 2249.67  
 0.1300 2253.39  
 23.3100 2249.00  
 23.3300 2225.32  
 23.3530 2233.41  
 0.0000 2239.24  
 0.0200Temp 120.4  
 0.0430 2246.95  
 0.0700 2247.12  
 0.0930 2251.70  
 0.1130 2250.83  
 0.1330 2251.17  
 23.3100 2249.34  
 0.1330 2253.94  
 0.2100 2250.71  
 0.2300 2241.40  
 0.2530 2250.87  
 0.2730 2247.02  
 0.3000 2250.55  
 0.3200Temp 134.1  
 0.3430 2249.13  
 0.3700 2256.10  
 0.3930 2257.71  
 0.4200 2252.52  
 0.4400 2261.43  
 0.4630 2249.52  
 0.4800 2261.95  
 0.5100 2247.24  
 0.5300 2262.01  
 0.5530 2249.27  
 0.5700Temp 134.4  
 0.5930 2240.60  
 1.0200Temp 134.2  
 1.0430 2250.94  
 1.0700 2260.31  
 1.0930 2257.35  
 1.1130 2216.69  
 1.1330 2213.76  
 1.1600 2204.39  
 1.1830 2205.20  
 1.2000Temp 134.4

FILED

16  
 0.1530 2244.30  
 0.1730 2250.80  
 0.2000 2250.24  
 0.2200Temp 133.2  
 0.2430 2257.20  
 0.2700 2248.00  
 0.2900 2259.87  
 0.3130 2251.80  
 0.3330 2257.80  
 0.3600 2260.74  
 0.1500 2246.95  
 0.1930 2254.46  
 0.2200 2252.00  
 0.2400 2245.01  
 0.2630 2257.40  
 0.2830 2249.95  
 0.3100 2249.83  
 0.3230 2260.15  
 0.3500 2251.50  
 0.3700Temp 134.4  
 0.4000 2261.51  
 0.4200Temp 134.4  
 0.4430 2261.43  
 0.4700 2260.52  
 0.4900 2261.95  
 0.5130 2260.10  
 0.5330 2261.00  
 0.5600 2261.20  
 0.5800 2261.05  
 1.0030 2261.99  
 1.0230 2262.03  
 1.0500 2260.01  
 1.0700Temp 135.1  
 1.0930 2257.17  
 1.1200 2212.96  
 1.1400 2209.01  
 1.1630 2204.55  
 1.1830 2204.50  
 1.2000Temp 134.4

FILED

17  
 0.3000 2249.80  
 0.3100 2261.10  
 0.3230 2240.34  
 0.3300 2256.85  
 0.3700Temp 134.4  
 0.3930 2257.83  
 0.4200 2262.20  
 0.4430 2261.31  
 0.4630 2262.34  
 0.4900 2259.80  
 0.5200Temp 134.4  
 0.5430 2262.40  
 0.5630 2261.51  
 0.5830 2262.34  
 0.6030 2259.80  
 1.0130 2262.49  
 1.0330 2258.52  
 1.0530 2260.81  
 1.0730 2259.81  
 1.1000 2259.84  
 1.1230Temp 137.1  
 1.1430 2205.83  
 1.1700 2207.20  
 1.1930 2200.40  
 0.3030 2249.80  
 0.3130 2261.10  
 0.3230 2240.34  
 0.3300 2256.85  
 0.3700Temp 134.4  
 0.3930 2257.83  
 0.4200 2262.20  
 0.4430 2261.31  
 0.4630 2262.34  
 0.4900 2259.80  
 0.5200Temp 134.4  
 0.5430 2262.40  
 0.5630 2261.51  
 0.5830 2262.34  
 0.6030 2259.80  
 1.0130 2262.49  
 1.0330 2258.52  
 1.0530 2260.81  
 1.0730 2259.81  
 1.1000 2259.84  
 1.1230Temp 137.1  
 1.1430 2205.83  
 1.1700 2207.20  
 1.1930 2200.40  
 0.3030 2249.80  
 0.3130 2261.10  
 0.3230 2240.34  
 0.3300 2256.85  
 0.3700Temp 134.4  
 0.3930 2257.83  
 0.4200 2262.20  
 0.4430 2261.31  
 0.4630 2262.34  
 0.4900 2259.80  
 0.5200Temp 134.4  
 0.5430 2262.40  
 0.5630 2261.51  
 0.5830 2262.34  
 0.6030 2259.80  
 1.0130 2262.49  
 1.0330 2258.52  
 1.0530 2260.81  
 1.0730 2259.81  
 1.1000 2259.84  
 1.1230Temp 137.1  
 1.1430 2205.83  
 1.1700 2207.20  
 1.1930 2200.40  
 0.3030 2249.80  
 0.3130 2261.10  
 0.3230 2240.34  
 0.3300 2256.85  
 0.3700Temp 134.4  
 0.3930 2257.83  
 0.4200 2262.20  
 0.4430 2261.31  
 0.4630 2262.34  
 0.4900 2259.80  
 0.5200Temp 134.4  
 0.5430 2262.40  
 0.5630 2261.51  
 0.5830 2262.34  
 0.6030 2259.80  
 1.0130 2262.49  
 1.0330 2258.52  
 1.0530 2260.81  
 1.0730 2259.81  
 1.1000 2259.84  
 1.1230Temp 137.1  
 1.1430 2205.83  
 1.1700 2207.20  
 1.1930 2200.40

FILED

18  
 0.3000 2249.80  
 0.3100 2261.10  
 0.3230 2240.34  
 0.3300 2256.85  
 0.3700Temp 134.4  
 0.3930 2257.83  
 0.4200 2262.20  
 0.4430 2261.31  
 0.4630 2262.34  
 0.4900 2259.80  
 0.5200Temp 134.4  
 0.5430 2262.40  
 0.5630 2261.51  
 0.5830 2262.34  
 0.6030 2259.80  
 1.0130 2262.49  
 1.0330 2258.52  
 1.0530 2260.81  
 1.0730 2259.81  
 1.1000 2259.84  
 1.1230Temp 137.1  
 1.1430 2205.83  
 1.1700 2207.20  
 1.1930 2200.40  
 0.3030 2249.80  
 0.3130 2261.10  
 0.3230 2240.34  
 0.3300 2256.85  
 0.3700Temp 134.4  
 0.3930 2257.83  
 0.4200 2262.20  
 0.4430 2261.31  
 0.4630 2262.34  
 0.4900 2259.80  
 0.5200Temp 134.4  
 0.5430 2262.40  
 0.5630 2261.51  
 0.5830 2262.34  
 0.6030 2259.80  
 1.0130 2262.49  
 1.0330 2258.52  
 1.0530 2260.81  
 1.0730 2259.81  
 1.1000 2259.84  
 1.1230Temp 137.1  
 1.1430 2205.83  
 1.1700 2207.20  
 1.1930 2200.40

20

1.230	2204.75	1.2400	2204.00	1.2430	2204.40	1.2500	2205.24	1.2530	2204.07
1.2000	2205.03	1.2630	2206.96	1.2700	2200.45	1.2700temp	142.7	1.2730	2205.06
1.3000	2204.04	1.2630	2204.06	1.2900	2204.46	1.2930	2204.82	1.3000	2204.26
1.3230	2203.32	1.3100	2204.06	1.3130	2206.45	1.3200	2205.22	1.3200temp	143.4
1.3500	2204.96	1.3300	2205.71	1.3330	2205.57	1.3400	2205.40	1.3430	2205.72
1.3700temp	143.0	1.3500	2204.70	1.3600	2204.74	1.3630	2204.61	1.3700	2204.57
1.3930	2204.00	1.3730	2205.12	1.3600	2204.74	1.3630	2204.96	1.3900	2205.01
1.4200	2205.37	1.4000	2204.05	1.4030	2205.25	1.4100	2205.13	1.4130	2204.91
1.4400	2205.29	1.4200temp	144.0	1.4230	2205.49	1.4300	2205.37	1.4330	2205.31
		1.4430	2204.96	1.4500	2205.19	1.4530	2204.99	1.4600	2204.97

21

1.4030	2205.00	1.4700	2206.17	1.4700temp	144.0	1.4730	2205.97	1.4800	2205.76
1.4330	2205.99	1.4900	2205.97	1.4930	2206.03	1.5000	2205.64	1.5030	2205.55
1.5100	2205.43	1.5130	2205.49	1.5200	2205.41	1.5200temp	144.0	1.5230	2205.20
1.5300	2205.21	1.5330	2208.46	1.5400	2206.51	1.5430	2206.00	1.5500	2205.75
1.5530	2205.47	1.5600	2205.55	1.5630	2205.49	1.5700	2205.33	1.5700temp	144.1
1.5730	2205.29	1.5600	2205.34	1.5630	2205.25	1.5900	2205.46	1.5930	2205.55
2.0000	2205.00	2.0100	2205.00	2.0130	2205.54	2.0130	2205.72	2.0200	2205.50
2.0200temp	144.1	2.0300	2205.02	2.0300	2205.44	2.0330	2205.25	2.0400	2205.04
2.0430	2205.09	2.0500	2205.56	2.0530	2205.44	2.0600	2205.79	2.0630	2205.75
2.0700	2205.54	2.0700temp	144.1	2.0730	2205.06	2.0800	2205.63	2.0830	2205.71

22

2.0900	2205.06	2.0930	2205.03	2.1000	2205.97	2.1030	2205.97	2.1100	2206.06
2.1130	2206.00	2.1200	2206.20	2.1200temp	144.1	2.1230	2206.35	2.1300	2206.55
2.1330	2200.33	2.1400	2206.29	2.1430	2206.37	2.1500	2206.29	2.1530	2206.20
2.1600	2206.20	2.1630	2206.26	2.1700	2206.22	2.1700temp	144.1	2.1730	2207.75
2.1800	2207.57	2.1830	2207.20	2.1900	2207.26	2.1930	2207.11	2.2000	2207.13
2.2030	2217.01	2.2100	2207.11	2.2130	2207.09	2.2200	2207.11	2.2200temp	144.1
2.2230	2210.97	2.2300	2209.93	2.2330	2207.22	2.2400	2207.10	2.2430	2207.29
2.2500	2207.29	2.2530	2207.31	2.2600	2207.21	2.2630	2207.17	2.2700	2209.97
2.2700temp	144.3	2.2730	2209.91	2.2800	2207.05	2.2830	2207.14	2.2900	2207.20
2.2930	2207.12	2.3000	2207.05	2.3030	2206.95	2.3100	2207.10	2.3130	2207.26

23

2.3200	2207.12	2.3200temp	144.3	2.3230	2207.14	2.3300	2207.14	2.3330	2207.26
2.3400	2207.41	2.3430	2207.50	2.3500	2207.43	2.3530	2207.38	2.3600	2207.43
2.3630	2207.43	2.3700	2207.43	2.3700temp	144.3	2.3730	2207.45	2.3800	2207.53
2.3900	2207.57	2.3930	2207.55	2.3930	2207.59	2.4000	2207.61	2.4030	2207.59
2.4100	2207.47	2.4130	2209.20	2.4200	2230.55	2.4200temp	144.3	2.4230	2230.50
2.4300	2242.90	2.4330	2244.50	2.4400	2244.02	2.4430	2244.01	2.4500	2244.04
2.4530	2244.71	2.4600	2244.70	2.4630	2244.07	2.4700	2244.03	2.4700temp	144.7
2.4730	2244.59	2.4800	2244.52	2.4830	2244.50	2.4900	2244.55	2.4930	2244.56
2.5000	2244.30	2.5030	2244.40	2.5100	2244.49	2.5130	2244.53	2.5200	2243.98
2.5200temp	144.5	2.5230	2243.73	2.5300	2243.71	2.5330	2243.65	2.5400	2243.65

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2.5430	2243.57	2.5500	2243.53	2.5530	2243.47	2.5600	2243.40	2.5630	2243.40
2.5700	2243.34	2.5700temp	144.5	2.5730	2242.55	2.5800	2242.00	2.5830	2242.00
2.5900	2242.02	3.0000	2242.07	3.0030	2242.05	3.0030	2242.03	3.0100	2242.24
3.0130	2242.10	3.0200	2242.20	3.0200temp	145.0	3.0230	2242.59	3.0300	2242.45
3.0330	2242.45	3.0400	2242.02	3.0430	2242.76	3.0500	2242.64	3.0530	2242.95
3.0600	2243.05	3.0630	2243.09	3.0700	2243.22	3.0730	2243.20	3.0730	2243.20
3.0800	2243.34	3.0900	2243.44	3.0930	2243.46	3.0930	2243.61	3.1000	2243.55
3.1030	2243.07	3.1100	2243.75	3.1130	2243.76	3.1200	2243.94	3.1200temp	145.0
3.1230	2243.94	3.1300	2243.92	3.1330	2243.90	3.1400	2244.00	3.1430	2244.09

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FILE  
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3.1700Temp 145.0	2244.19	2244.24	3.1800	2244.24	3.1830	2244.24	3.1900	2244.30
3.1930	2244.26	2244.39	3.2030	2244.33	3.2100	2244.41	3.2130	2244.31
3.2200	2244.32	3.2200Temp 145.2	3.2230	2244.30	3.2300	2244.32	3.2330	2244.42
3.2400	2244.30	3.2430	3.2500	2244.30	3.2530	2244.36	3.2600	2244.32
3.2630	2244.30	3.2700	3.2700Temp 145.2	2244.28	3.2730	2244.34	3.2800	2244.27
3.2630	2244.30	3.2900	3.2930	2244.23	3.3000	2244.34	3.3030	2244.36
3.3100	2244.44	3.3130	3.3200	2244.34	3.3200Temp 145.2	2244.34	3.3230	2244.27
3.3300	2244.09	3.3330	3.3400	2244.09	3.3430	2244.11	3.3500	2244.07
3.3530	2244.15	3.3600	3.3630	2244.03	3.3700	2244.15	3.3700Temp 145.2	2244.07
3.3730	2244.07	3.3800	3.3830	2244.09	3.3900	2244.17	3.3930	2244.09

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FILE

3.4000	2244.19	2244.11	3.4100	2244.11	3.4130	2244.21	3.4200	2244.17
3.4200Temp 145.2	2244.2	2244.17	3.4300	2244.23	3.4330	2244.05	3.4400	2244.05
3.4430	2244.07	3.4500	3.4530	2244.21	3.4600	2244.19	3.4630	2244.17
3.4700	2244.11	3.4700Temp 145.2	3.4730	2244.13	3.4800	2244.03	3.4830	2244.05
3.4900	2244.07	3.4930	3.5000	2244.05	3.5030	2243.99	3.5100	2244.21
3.5130	2244.25	3.5200	3.5200Temp 145.2	2244.15	3.5230	2244.19	3.5300	2244.25
3.5330	2244.25	3.5400	3.5430	2244.17	3.5500	2244.11	3.5530	2244.15
3.5600	2244.15	3.5630	3.5700	2244.17	3.5700Temp 145.2	2244.11	3.5730	2244.11
3.5800	2244.01	3.5830	3.5900	2244.09	3.5930	2244.01	4.0000	2243.90
4.0030	2244.09	4.0100	4.0130	2244.03	4.0200	2244.13	4.0200Temp 145.2	2243.90

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FILE

4.0230	2244.11	2244.03	4.0330	2244.03	4.0400	2244.07	4.0430	2244.03
4.0500	2244.03	4.0530	4.0600	2244.13	4.0630	2244.11	4.0700	2244.03
4.0700Temp 145.2	2244.2	4.0730	4.0800	2244.03	4.0830	2244.09	4.0900	2244.11
4.0930	2244.07	4.1000	4.1030	2244.15	4.1100	2244.05	4.1130	2244.07
4.1200	2244.09	4.1200Temp 145.2	4.1230	2244.11	4.1300	2244.09	4.1330	2244.17
4.1400	2244.17	4.1430	4.1500	2244.15	4.1530	2243.99	4.1600	2243.94
4.1630	2244.03	4.1700	4.1700Temp 145.2	2243.97	4.1730	2243.94	4.1800	2243.99
4.1800	2244.01	4.1900	4.1930	2243.96	4.2000	2244.03	4.2030	2243.90
4.2100	2243.97	4.2130	4.2200	2244.07	4.2200Temp 145.2	2244.03	4.2230	2244.13
4.2300	2244.21	4.2330	4.2400	2243.97	4.2430	2244.01	4.2500	2244.17

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FILE

4.2530	2244.09	2244.07	4.2630	2244.25	4.2700	2244.13	4.2700Temp 145.2	2244.03
4.2730	2244.19	2244.15	4.2830	2244.19	4.2900	2244.21	4.2930	2244.19
4.3000	2244.13	4.3030	4.3100	2243.99	4.3130	2244.05	4.3200	2244.03
4.3200Temp 145.2	2244.2	4.3230	4.3300	2244.09	4.3330	2244.09	4.3400	2244.09
4.3430	2243.97	4.3500	4.3530	2243.94	4.3600	2243.99	4.3630	2243.94
4.3700	2243.00	4.3700Temp 145.2	4.3730	2243.06	4.3800	2243.92	4.3830	2243.90
4.3900	2243.97	4.3930	4.4000	2243.99	4.4030	2244.05	4.4100	2244.17
4.4130	2244.13	4.4200	4.4200Temp 145.2	2244.07	4.4230	2244.05	4.4300	2244.03
4.4330	2244.07	4.4400	4.4430	2244.03	4.4500	2243.97	4.4530	2243.97
4.4600	2243.92	4.4630	4.4700	2243.92	4.4700Temp 145.2	2244.01	4.4730	2243.90

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FILE

4.4800	2243.92	2243.92	4.4830	2243.06	4.4900	2243.06	4.4930	2243.92
4.5030	2243.90	2243.06	4.5100	2243.06	4.5130	2243.06	4.5200	2243.92
4.5230	2243.06	2243.06	4.5300	2243.94	4.5330	2243.90	4.5400	2243.99
4.5500	2243.97	2243.94	4.5530	2243.94	4.5600	2243.80	4.5700	2243.06
4.5700Temp 145.2	2243.04	2243.04	4.5730	2243.04	4.5800	2243.80	4.5900	2243.06
4.5930	2243.04	2243.92	5.0030	2243.90	5.0100	2243.94	5.0130	2243.90
5.0200	2243.90	5.0200Temp 145.2	5.0230	2244.05	5.0300	2244.09	5.0330	2244.09
5.0400	2244.09	2244.17	5.0430	2244.05	5.0500	2244.01	5.0600	2244.01
5.0630	2244.01	2244.03	5.0700	2244.03	5.0700Temp 145.2	2243.99	5.0800	2243.97
5.0830	2244.03	2244.03	5.0930	2244.07	5.0930	2244.01	5.1030	2244.03

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Schlumberger

5.1100	2244.03	5.1130	2243.99	5.1200	2244.07	5.1230	2244.07
5.1300	2244.07	5.1330	2244.01	5.1400	2244.01	5.1430	2244.01
5.1530	2244.01	5.1600	2244.03	5.1630	2244.01	5.1700	2244.01
5.1730	2243.96	5.1800	2243.99	5.1830	2244.01	5.1900	2244.03
5.2000	2243.68	5.2030	2243.64	5.2100	2243.60	5.2130	2243.68
5.2200Temp 145.2		5.2230	2243.90	5.2300	2243.64	5.2330	2243.68
5.2430	2243.94	5.2500	2243.99	5.2530	2243.97	5.2600	2243.94
5.2700	2243.96	5.2730	2243.97	5.2730	2243.94	5.2800	2243.94
5.2900	2243.92	5.2930	2243.97	5.3000	2243.97	5.3100	2243.97
5.3130	2243.96	5.3200	2244.03	5.3200Temp 145.2		5.3230	2244.01

FILE

5.3330	2244.07	5.3400	2244.13	5.3430	2244.09	5.3500	2244.07
5.3600	2244.13	5.3630	2244.07	5.3700	2243.94	5.3700Temp 145.2	
5.3600	2243.76	5.3630	2243.60	5.3900	2243.65	5.3930	2243.63
5.4030	2243.51	5.4100	2243.59	5.4130	2243.65	5.4200	2243.80
5.4230	2243.74	5.4300	2243.69	5.4330	2243.69	5.4400	2243.99
5.4500	2244.62	5.4530	2244.67	5.4600	2245.16	5.4630	2245.14
5.4700Temp 145.2		5.4730	2222.61	5.4600	2215.24	5.4830	2212.29
5.4930	2209.17	5.5000	2206.56	5.5030	2208.46	5.5100	2209.38
5.5200	2206.61	5.5200Temp 144.9		5.5230	2208.54	5.5300	2208.37
5.5400	2207.49	5.5430	2216.70	5.5500	2224.63	5.5530	2227.29

FILE

5.5630	2233.26	5.5700	2235.76	5.5700Temp 144.7		5.5730	2237.05
5.5630	2236.59	5.5900	2236.57	5.5930	2239.28	6.0000	2240.07
6.0100	2240.33	6.0130	2239.60	6.0200	2239.03	6.0200Temp 144.9	
6.0300	2236.39	6.0330	2237.61	6.0400	2237.57	6.0430	2237.69
6.0500	2237.23	6.0600	2237.05	6.0630	2236.61	6.0700	2236.10
6.0730	2235.60	6.0800	2233.88	6.0830	2233.20	6.0900	2232.62
6.1000	2232.37	6.1030	2232.27	6.1100	2232.44	6.1130	2232.41
6.1200Temp 144.9		6.1230	2232.17	6.1300	2232.29	6.1330	2232.39
6.1430	2232.39	6.1500	2232.33	6.1530	2232.37	6.1600	2232.50
6.1700	2232.52	6.1700Temp 144.9		6.1730	2232.60	6.1800	2232.54

FILE

6.1900	2232.50	6.1930	2232.66	6.2000	2232.52	6.2030	2232.50
6.2130	2232.60	6.2200	2232.75	6.2200Temp 144.9		6.2230	2232.93
6.2330	2232.69	6.2400	2233.06	6.2430	2233.57	6.2500	2233.60
6.2600	2233.76	6.2630	2234.07	6.2700	2233.51	6.2700Temp 144.9	
6.2800	2233.12	6.2830	2233.20	6.2900	2233.57	6.2930	2234.15
6.3030	2234.75	6.3100	2234.01	6.3130	2233.45	6.3200	2233.20
6.3230	2233.10	6.3300	2233.20	6.3330	2233.26	6.3400	2232.99
6.3500	2232.69	6.3530	2232.95	6.3600	2233.02	6.3630	2233.10
6.3700Temp 144.9		6.3730	2233.16	6.3800	2233.39	6.3830	2233.49
6.3930	2233.30	6.4000	2233.66	6.4030	2234.07	6.4100	2233.32

FILE

6.4200	2233.43	6.4230	2233.24	6.4300	2233.24	6.4330	2233.10
6.4400	2233.10	6.4430	2233.10	6.4500	2233.24	6.4530	2233.10
6.4630	2233.20	6.4700	2233.32	6.4730	2233.60	6.4800	2234.52
6.4900	2226.10	6.4930	2217.94	6.5000	2214.64	6.5030	2213.99
6.5100	2211.09	6.5130	2209.64	6.5200	2206.43	6.5230	2206.02
6.5300	2207.61	6.5330	2206.65	6.5400	2208.21	6.5430	2208.56
6.5530	2211.63	6.5600	2212.06	6.5630	2214.23	6.5700	2212.15
6.5730	2211.49	6.5800	2210.31	6.5830	2209.62	6.5900	2209.06
6.6000	2210.17	6.6030	2210.67	6.6100	2214.10	6.6130	2217.28
6.6200Temp 144.9		6.6230	2222.66	6.6300	2226.54	6.6330	2229.50

7.0430	2232.50	7.0500	2231.92	7.0600	2231.22	7.0700	2231.44	7.0800	2232.45
7.0700	2233.05	7.0730	2233.13	7.0800	2232.14	7.0830	2232.14	7.0900	2231.40
7.0900	2229.73	7.1000	2228.10	7.1030	2228.74	7.1100	2225.74	7.1100	2224.44
7.1130	2224.15	7.1200	2224.12	7.1200	2224.22	7.1230	2225.27	7.1300	2224.54
7.1330	2224.52	7.1400	2224.03	7.1430	2224.94	7.1500	2225.27	7.1530	2225.54
7.1600	2225.02	7.1630	2225.00	7.1700	2225.40	7.1700	Temp 144.9	7.1730	2220.00
7.1800	2226.67	7.1900	2227.00	7.1900	2226.50	7.1930	2229.09	7.2000	2230.30
7.2030	2230.50	7.2100	2231.40	7.2130	2232.14	7.2200	2232.45	7.2200	Temp 144.9
7.2230	2233.14	7.2300	2234.20	7.2330	2233.93	7.2400	2233.97	7.2430	2234.22
7.2500	2234.23	7.2530	2234.15	7.2600	2234.55	7.2630	2234.73	7.2700	2234.02

FILED

7.2700	Temp 144.9	7.2730	2235.04	7.2800	2235.27	7.2900	2235.52	7.2900	2235.77
7.2930	2230.10	7.3000	2230.70	7.3030	2237.11	7.3100	2237.55	7.3130	2237.90
7.3200	2235.19	7.3200	Temp 144.9	7.3230	2232.50	7.3300	2231.71	7.3330	2231.09
7.3400	2231.50	7.3430	2232.35	7.3500	2232.77	7.3530	2233.10	7.3600	2233.30
7.3630	2233.01	7.3700	2233.00	7.3700	Temp 144.9	7.3730	2234.20	7.3800	2234.70
7.3830	2235.11	7.3900	2235.05	7.3930	2235.20	7.4000	2235.72	7.4030	2236.14
7.4100	2230.30	7.4130	2230.22	7.4200	2230.47	7.4200	Temp 145.0	7.4230	2230.70
7.4300	2230.05	7.4330	2230.09	7.4400	2237.09	7.4430	2237.22	7.4500	2237.20
7.4530	2237.93	7.4600	2237.55	7.4630	2237.02	7.4700	2230.02	7.4700	Temp 145.0
7.4730	2230.17	7.4800	2237.90	7.4830	2237.44	7.4900	2237.30	7.4930	2237.49

FILED

7.5000	2237.04	7.5030	2237.90	7.5100	2236.05	7.5130	2236.25	7.5200	2236.05
7.5200	Temp 145.0	7.5230	2230.05	7.5300	2230.19	7.5330	2236.30	7.5400	2236.03
7.5430	2230.04	7.5500	2239.01	7.5530	2239.10	7.5600	2239.43	7.5630	2239.12
7.5700	2239.15	7.5700	Temp 145.2	7.5730	2239.29	7.5800	2239.43	7.5830	2239.50
7.5900	2239.02	7.5930	2239.04	8.0000	2239.40	8.0030	2239.92	8.0100	2239.77
8.0130	2239.02	8.0200	2239.72	8.0200	Temp 145.2	8.0230	2239.72	8.0300	2239.77
8.0330	2239.01	8.0400	2240.05	8.0430	2240.10	8.0500	2240.20	8.0530	2240.10
8.0600	2240.00	8.0630	2240.12	8.0700	2240.32	8.0700	Temp 145.2	8.0730	2240.49
8.0800	2240.05	8.0830	2240.02	8.0900	2240.97	8.0930	2241.03	8.1000	2241.15
8.1030	2240.02	8.1100	2240.70	8.1130	2233.33	8.1200	2230.00	8.1200	Temp 145.2

FILED

8.1230	2230.00	8.1300	2230.12	8.1330	2230.00	8.1400	2230.80	8.1430	2231.07
8.1500	2231.21	8.1530	2231.00	8.1600	2231.04	8.1630	2232.19	8.1700	2232.05
8.1700	Temp 145.0	8.1730	2229.93	8.1800	2216.00	8.1830	2200.80	8.1900	2191.00
8.1930	2105.12	8.2000	2102.40	8.2030	2101.19	8.2100	2100.91	8.2130	2100.01
8.2200	2179.13	8.2200	Temp 144.7	8.2230	2176.07	8.2300	2177.29	8.2330	2177.09
8.2400	2170.03	8.2430	2177.90	8.2500	2176.07	8.2530	2176.20	8.2600	2170.02
8.2630	2107.09	8.2700	2105.19	8.2700	Temp 144.1	8.2730	2104.15	8.2800	2103.77
8.2830	2103.47	8.2900	2102.55	8.2930	2101.77	8.3000	2101.52	8.3030	2100.00
8.3100	2100.24	8.3130	2159.98	8.3200	2159.95	8.3200	Temp 143.6	8.3230	2159.00
8.3300	2100.10	8.3330	2100.01	8.3400	2100.75	8.3430	2100.66	8.3500	2100.79

FILED

8.3530	2100.09	8.3600	2100.70	8.3630	2100.77	8.3700	2100.67	8.3700	Temp 143.4
8.3730	2101.24	8.3800	2101.40	8.3830	2101.40	8.3900	2101.50	8.3930	2101.05
8.4000	2102.49	8.4030	2103.02	8.4100	2103.77	8.4130	2104.00	8.4200	2105.00
8.4200	Temp 143.2	8.4230	2109.50	8.4300	2172.73	8.4330	2175.02	8.4400	2177.57
8.4430	2179.62	8.4500	2100.87	8.4530	2101.10	8.4600	2102.34	8.4630	2104.02
8.4700	2100.17	8.4700	Temp 143.4	8.4730	2100.25	8.4800	2190.50	8.4830	2191.97
8.4900	2193.99	8.4930	2196.02	8.5000	2196.00	8.5030	2202.02	8.5100	2201.05
8.5130	2190.77	8.5200	2195.10	8.5200	Temp 143.8	8.5230	2192.54	8.5300	2190.91
8.5330	2190.39	8.5400	2191.14	8.5430	2192.38	8.5500	2193.00	8.5530	2194.04
8.5600	2193.11	8.5630	2192.50	8.5700	2193.57	8.5700	Temp 144.0	8.5730	2194.01

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FILE  
NO. 2000  
Schlumberger

6.5800	2194.46	8.5830	2194.03	8.5900	2192.75	8.5930	2192.93	9.0000	2195.02
9.0030	2189.99	9.0100	2187.68	9.0130	2187.28	9.0200	2188.65	9.0200temp	144.0
9.0230	2189.72	9.0300	2190.03	9.0330	2190.90	9.0400	2190.32	9.0430	2191.67
9.0500	2192.99	9.0530	2193.64	9.0600	2193.68	9.0630	2194.90	9.0700	2197.69
9.0700temp	144.0	9.0730	2199.41	9.0800	2200.92	9.0830	2198.30	9.0900	2197.27
9.0930	2197.64	9.1000	2198.03	9.1030	2199.63	9.1100	2202.22	9.1130	2206.42
9.1200	2201.33	9.1200temp	144.0	9.1230	2200.69	9.1300	2199.89	9.1330	2199.75
9.1400	2201.65	9.1430	2200.83	9.1500	2201.51	9.1530	2201.27	9.1600	2201.37
9.1630	2200.61	9.1700	2197.70	9.1700temp	144.1	9.1730	2194.86	9.1800	2192.02
9.1830	2190.74	9.1900	2186.27	9.1930	2184.96	9.2000	2183.43	9.2030	2180.40

FILE  
40

9.2100	2176.89	9.2130	2178.21	9.2200	2178.10	9.2200temp	144.0	9.2230	2177.72
9.2300	2177.55	9.2330	2177.61	9.2400	2177.67	9.2430	2178.01	9.2500	2178.11
9.2530	2177.88	9.2600	2177.61	9.2630	2177.79	9.2700	2177.64	9.2700temp	143.8
9.2730	2177.58	9.2800	2177.59	9.2830	2177.84	9.2900	2178.17	9.2930	2177.94
9.3000	2176.25	9.3030	2178.41	9.3100	2178.57	9.3130	2178.67	9.3200	2178.96
9.3200temp	143.6	9.3230	2179.42	9.3300	2179.62	9.3330	2179.93	9.3400	2180.26
9.3430	2179.77	9.3500	2177.64	9.3530	2176.60	9.3600	2176.17	9.3630	2176.23
9.3700	2176.08	9.3700temp	143.6	9.3730	2176.48	9.3800	2176.73	9.3830	2177.02
9.3900	2177.49	9.3930	2176.01	9.4000	2178.15	9.4030	2178.28	9.4100	2176.09
9.4130	2176.34	9.4200	2178.65	9.4200temp	143.6	9.4230	2178.98	9.4300	2179.39

FILE  
41

9.4330	2179.15	9.4400	2179.11	9.4430	2179.17	9.4500	2179.21	9.4530	2179.33
9.4600	2178.61	9.4630	2178.17	9.4700	2178.07	9.4700temp	143.6	9.4730	2178.36
9.4800	2178.71	9.4830	2179.29	9.4900	2179.31	9.4930	2179.44	9.5000	2179.60
9.5030	2179.11	9.5100	2178.42	9.5130	2178.53	9.5200	2178.65	9.5200temp	143.0
9.5230	2179.13	9.5300	2179.71	9.5330	2179.97	9.5400	2180.37	9.5430	2180.49
9.5500	2180.06	9.5530	2179.40	9.5600	2179.33	9.5630	2179.60	9.5700	2179.81
9.5700temp	143.6	9.5730	2180.04	9.5800	2180.55	9.5830	2180.64	9.5900	2180.88
9.5930	2181.42	10.0000	2181.65	10.0030	2182.15	10.0100	2182.58	10.0130	2182.39
10.0200	2182.44	10.0200temp	143.6	10.0230	2182.13	10.0300	2182.06	10.0330	2182.42
10.0400	2182.52	10.0430	2182.40	10.0500	2182.48	10.0530	2182.64	10.0600	2183.10

FILE  
42

10.0630	2183.41	10.0700	2183.57	10.0700temp	143.6	10.0730	2184.09	10.0800	2184.30
10.0830	2184.49	10.0900	2184.10	10.0930	2183.46	10.1000	2183.48	10.1030	2183.57
10.1100	2183.94	10.1130	2183.57	10.1200	2183.47	10.1200temp	143.8	10.1230	2183.74
10.1300	2183.47	10.1330	2183.54	10.1400	2183.45	10.1430	2182.29	10.1500	2181.28
10.1530	2181.09	10.1600	2182.15	10.1630	2184.07	10.1700	2187.71	10.1700temp	143.8
10.1730	2191.81	10.1800	2195.04	10.1830	2195.75	10.1900	2196.74	10.1930	2196.50
10.2000	2197.76	10.2030	2196.28	10.2100	2197.35	10.2130	2199.90	10.2200	2200.21
10.2200temp	144.0	10.2230	2201.25	10.2300	2200.80	10.2330	2200.89	10.2400	2199.49
10.2430	2198.77	10.2500	2198.61	10.2530	2197.74	10.2600	2198.43	10.2630	2198.81
10.2700	2199.81	10.2700temp	144.1	10.2730	2200.12	10.2800	2200.65	10.2830	2201.79

FILE  
43

10.2900	2202.02	10.2930	2200.45	10.3000	2199.70	10.3030	2199.54	10.3100	2201.30
10.3130	2201.65	10.3200	2201.25	10.3200temp	144.1	10.3230	2202.91	10.3300	2203.29
10.3330	2203.33	10.3400	2204.31	10.3430	2203.93	10.3500	2203.90	10.3530	2203.88
10.3600	2203.30	10.3630	2202.46	10.3700	2202.13	10.3700temp	144.1	10.3730	2202.91
10.3800	2203.23	10.3830	2204.41	10.3900	2205.69	10.3930	2206.81	10.4000	2207.71
10.4030	2206.95	10.4100	2208.85	10.4130	2208.54	10.4200	2208.96	10.4200temp	144.3
10.4230	2209.56	10.4300	2208.85	10.4330	2208.46	10.4400	2209.12	10.4430	2210.01
10.4500	2211.36	10.4530	2209.54	10.4600	2207.74	10.4630	2207.01	10.4700	2206.91
10.4700temp	144.3	10.4730	2207.63	10.4800	2209.52	10.4830	2211.01	10.4900	2212.13
10.4930	2212.82	10.5000	2214.74	10.5030	2211.04	10.5100	2204.82	10.5130	2200.66

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FILE  
FORETRAC  
Schlumberger

10.5200	2198.41	10.5200temp 144.5	10.5230	2197.91	10.5300	2197.94	10.5330	2197.94	10.5330	2197.03	
10.5400	2196.05	10.5430	2195.01	10.5500	2185.55	10.5530	2180.32	10.5530	2180.32	10.5500	2177.48
10.5630	2175.65	10.5700	2174.84	10.5700temp 144.1	2174.19	10.5730	2174.19	10.5730	2174.19	10.5800	2174.27
10.5830	2174.57	10.5900	2174.56	10.5930	2174.76	11.0000	2174.76	11.0000	2174.76	11.0030	2175.00
11.0100	2175.28	11.0130	2175.91	11.0200	2176.15	11.0200temp 144.0	2177.32	11.0200temp 144.0	2177.32	11.0230	2176.58
11.0300	2176.05	11.0330	2176.81	11.0400	2177.07	11.0430	2177.07	11.0430	2177.07	11.0500	2177.63
11.0530	2178.00	11.0600	2178.43	11.0630	2178.95	11.0700	2179.29	11.0700	2179.29	11.0700temp 143.8	2180.21
11.0730	2179.89	11.0800	2180.23	11.0830	2180.52	11.0900	2180.41	11.0900	2180.41	11.0930	2180.21
11.1000	2180.58	11.1030	2181.16	11.1100	2181.63	11.1130	2181.63	11.1130	2181.63	11.1200	2182.19
11.1200temp 143.8	2182.29	11.1230	2182.03	11.1300	2183.06	11.1330	2183.06	11.1330	2183.06	11.1400	2184.45

FILE 45

11.1430	2165.03	11.1500	2184.67	11.1530	2184.51	11.1600	2184.53	11.1630	2184.01	11.1630	2184.01
11.1700	2164.71	11.1700temp 143.8	2184.86	11.1730	2183.97	11.1800	2183.62	11.1830	2183.78	11.1830	2183.78
11.1900	2164.34	11.1930	2184.86	11.2000	2185.44	11.2030	2185.67	11.2100	2184.63	11.2100	2184.63
11.2130	2163.23	11.2200	2182.32	11.2200temp 143.8	2183.8	11.2230	2182.58	11.2300	2182.83	11.2300	2182.83
11.2330	2183.45	11.2400	2183.91	11.2430	2184.22	11.2500	2183.76	11.2530	2182.92	11.2530	2182.92
11.2600	2182.77	11.2630	2182.83	11.2700	2183.10	11.2700temp 143.8	2184.38	11.2730	2183.29	11.2730	2183.29
11.2630	2183.56	11.2830	2184.43	11.2900	2184.32	11.2930	2184.38	11.3000	2184.47	11.3000	2184.47
11.3030	2185.31	11.3100	2185.38	11.3130	2185.27	11.3200	2185.00	11.3200temp 143.8	2185.00	11.3200temp 143.8	2185.00
11.3230	2184.97	11.3300	2184.87	11.3330	2184.87	11.3400	2185.04	11.3430	2185.12	11.3430	2185.12
11.3500	2185.29	11.3530	2185.62	11.3600	2186.76	11.3630	2187.63	11.3700	2187.64	11.3700	2187.64

FILE 46

11.3700temp 144.0	2194.79	11.3730	2189.29	11.3800	2191.20	11.3830	2192.32	11.3900	2193.42	11.3900	2193.42
11.3930	2194.79	11.4000	2196.73	11.4030	2197.04	11.4100	2193.76	11.4130	2185.79	11.4130	2185.79
11.4200	2160.15	11.4200temp 144.0	2169.09	11.4230	2175.76	11.4300	2172.83	11.4330	2170.92	11.4330	2170.92
11.4400	2169.74	11.4430	2169.09	11.4500	2168.40	11.4530	2167.98	11.4600	2167.91	11.4600	2167.91
11.4630	2167.92	11.4700	2167.98	11.4700temp 143.6	2167.30	11.4730	2167.02	11.4800	2167.82	11.4800	2167.82
11.4830	2167.12	11.4900	2166.65	11.4930	2167.30	11.5000	2167.80	11.5030	2168.06	11.5030	2168.06
11.5100	2167.64	11.5130	2166.03	11.5200	2166.71	11.5200temp 143.6	2165.72	11.5230	2167.14	11.5230	2167.14
11.5300	2167.43	11.5330	2167.18	11.5400	2165.95	11.5430	2165.72	11.5500	2165.70	11.5500	2165.70
11.5530	2165.82	11.5600	2165.03	11.5630	2165.45	11.5700	2165.40	11.5700temp 143.4	2165.40	11.5700temp 143.4	2165.40
11.5730	2165.13	11.5800	2164.40	11.5830	2163.97	11.5900	2164.17	11.5930	2164.50	11.5930	2164.50

FILE 47

12.0000	2163.65	12.0030	2163.75	12.0100	2164.08	12.0130	2164.70	12.0200	2164.44	12.0200	2164.44
12.0200temp 143.4	2164.22	12.0230	2164.22	12.0300	2164.72	12.0330	2165.05	12.0400	2165.09	12.0400	2165.09
12.0430	2164.94	12.0500	2165.01	12.0530	2165.05	12.0600	2165.25	12.0630	2164.70	12.0630	2164.70
12.0700	2165.26	12.0700temp 143.4	2164.4	12.0730	2165.44	12.0800	2165.40	12.0830	2164.22	12.0830	2164.22
12.0900	2164.34	12.0930	2164.65	12.1000	2164.90	12.1030	2165.13	12.1100	2164.92	12.1100	2164.92
12.1130	2165.61	12.1200	2166.39	12.1200temp 143.4	2164.64	12.1230	2166.34	12.1300	2164.75	12.1300	2164.75
12.1330	2139.03	12.1400	2137.01	12.1430	2131.14	12.1500	2099.63	12.1530	2098.05	12.1530	2098.05
12.1600	2085.79	12.1630	2056.42	12.1700	2052.31	12.1700temp 142.9	2052.66	12.1730	2050.00	12.1730	2050.00
12.1800	2047.92	12.1830	2040.22	12.1900	2047.95	12.1930	2052.66	12.2000	2055.72	12.2000	2055.72
12.2030	2058.61	12.2100	2061.10	12.2130	2061.76	12.2200	2065.76	12.2200temp 141.6	2065.76	12.2200temp 141.6	2065.76

FILE 48

12.2230	2062.98	12.2300	2059.77	12.2330	2065.02	12.2400	2080.03	12.2430	2080.30	12.2430	2080.30
12.2500	2093.74	12.2530	2097.60	12.2600	2100.62	12.2630	2103.15	12.2700	2104.03	12.2700	2104.03
12.2700temp 141.3	2105.03	12.2730	2103.71	12.2800	2104.68	12.2830	2105.17	12.2900	2104.14	12.2900	2104.14
12.2930	2105.03	12.3000	2105.24	12.3030	2104.15	12.3100	2105.23	12.3130	2105.57	12.3130	2105.57
12.3200	2105.70	12.3200temp 141.4	2105.35	12.3230	2105.59	12.3300	2104.66	12.3330	2105.18	12.3330	2105.18
12.3400	2105.50	12.3430	2105.35	12.3500	2104.07	12.3530	2105.50	12.3600	2105.57	12.3600	2105.57
12.3630	2105.06	12.3700	2105.61	12.3700temp 141.6	2106.47	12.3730	2106.07	12.3800	2106.01	12.3800	2106.01
12.3830	2105.39	12.3900	2105.89	12.3930	2106.47	12.4000	2106.29	12.4030	2105.76	12.4030	2105.76
12.4100	2106.59	12.4130	2106.77	12.4200	2106.74	12.4200temp 141.6	2107.94	12.4230	2107.00	12.4230	2107.00
12.4300	2107.05	12.4330	2107.79	12.4400	2107.09	12.4430	2107.94	12.4500	2106.02	12.4500	2106.02

ELL  
ROSTER  
Schlumberger

49  
12.4530 2106.37  
12.4730 2109.26  
12.5000 2110.27  
12.5200Temp 141.6  
12.5430 2112.21  
12.5700 2112.72  
12.5900 2113.02  
13.0130 2113.26  
13.0330 2113.76  
13.0600 2112.51

12.4600 2107.03  
12.4800 2109.47  
12.5030 2109.82  
12.5230 2111.75  
12.5500 2112.36  
12.5730 2111.96  
13.0000 2113.48  
13.0200Temp 142.0  
13.0430 2113.22  
13.0700 2113.05

12.4630 2108.62  
12.4830 2109.20  
12.5100 2110.75  
12.5300 2111.35  
12.5530 2112.50  
12.5730 2111.96  
13.0000 2113.48  
13.0200Temp 142.0  
13.0430 2113.22  
13.0700 2113.05

12.4700 2109.18  
12.4900 2109.45  
12.5130 2111.52  
12.5330 2111.50  
12.5600 2113.02  
12.5800 2112.60  
13.0100 2114.12  
13.0300 2114.19  
13.0530 2113.59  
13.0730 2113.16

12.4700Temp 141.0  
12.4930 2110.47  
12.5200 2111.43  
12.5400 2111.86  
12.5630 2112.86  
12.5830 2112.69  
13.0100 2114.12  
13.0300 2114.19  
13.0530 2113.59  
13.0730 2113.16

ELL

50  
13.0600 2113.22  
13.1030 2111.91  
13.1230 2111.09  
13.1500 2112.00  
13.1730 2112.00  
13.1930 2111.38  
13.2200 2111.11  
13.2400 2110.47  
13.2630 2111.46  
13.2830 2111.23

13.0630 2113.57  
13.1100 2112.58  
13.1300 2111.03  
13.1530 2111.29  
13.1730 2111.27  
13.2000 2111.19  
13.2200Temp 142.0  
13.2430 2111.21  
13.2700 2112.37  
13.2900 2111.05

13.0900 2113.05  
13.1130 2112.47  
13.1330 2111.36  
13.1600 2111.36  
13.1800 2112.16  
13.2030 2111.46  
13.2230 2111.71  
13.2500 2111.67  
13.2700Temp 142.0  
13.2930 2112.04

13.0930 2112.95  
13.1200 2112.14  
13.1400 2112.06  
13.1630 2111.67  
13.1900 2111.91  
13.2130 2110.67  
13.2330 2111.13  
13.2600 2110.90  
13.2800 2112.00  
13.3030 2110.64

13.1000 2112.16  
13.1200Temp 142.0  
13.1430 2112.00  
13.1700 2111.67  
13.1900 2111.91  
13.2130 2110.67  
13.2330 2111.13  
13.2600 2110.90  
13.2800 2112.00  
13.3030 2110.64

ELL

51  
13.3100 2111.21  
13.3300 2111.13  
13.3530 2111.52  
13.3730 2110.86  
13.4000 2111.42  
13.4200Temp 142.0  
13.4430 2110.90  
13.4700 2111.15  
13.4900 2111.26  
13.5130 2111.57

13.3130 2111.60  
13.3330 2111.73  
13.3600 2111.53  
13.3800 2111.60  
13.4030 2111.34  
13.4230 2110.63  
13.4500 2111.62  
13.4700Temp 142.0  
13.4930 2111.32  
13.5200 2112.03

13.3200 2111.42  
13.3400 2111.05  
13.3630 2111.00  
13.3830 2111.81  
13.4100 2110.94  
13.4300 2110.40  
13.4530 2111.29  
13.4800 2111.42  
13.4800 2111.66  
13.5030 2111.55  
13.5230 2112.02

13.3200Temp 142.0  
13.3430 2110.96  
13.3700 2111.29  
13.3930 2111.75  
13.4130 2110.50  
13.4330 2110.74  
13.4600 2110.47  
13.4630 2110.47  
13.4830 2111.45  
13.5100 2111.40  
13.5300 2110.90

13.3230 2111.27  
13.3500 2110.64  
13.3700Temp 142.0  
13.3930 2110.60  
13.4200 2110.74  
13.4400 2110.51  
13.4630 2110.47  
13.4830 2111.45  
13.5100 2111.40  
13.5300 2110.90

ELL

52  
13.5530 2111.03  
13.5800 2111.27  
13.6000 2110.96  
13.6230 2111.07  
13.6500 2111.03  
13.6730 2111.76  
13.7000Temp 141.6  
13.7230 2109.59  
13.7500 2109.62  
13.7730 2110.06

13.5400 2110.76  
13.5630 2111.42  
13.5830 2111.46  
14.0100 2111.40  
14.0300 2111.03  
14.0530 2111.17  
14.0730 2110.56  
14.1000 2109.50  
14.1200Temp 142.0  
14.1430 2110.37

13.5430 2110.61  
13.5700 2111.42  
13.5930 2111.29  
14.0130 2110.76  
14.0330 2110.67  
14.0600 2111.19  
14.0800 2109.62  
14.1030 2109.65  
14.1230 2110.50  
14.1500 2111.09

13.5500 2110.79  
13.5700Temp 142.0  
13.5930 2110.16  
14.0200 2111.46  
14.0400 2111.43  
14.0630 2111.09  
14.0830 2109.66  
14.1100 2110.11  
14.1300 2111.06  
14.1530 2110.95

13.5530 2110.69  
13.5730 2110.16  
14.0000 2110.71  
14.0200Temp 142.0  
14.0430 2111.76  
14.0700 2111.37  
14.0900 2109.62  
14.1130 2110.26  
14.1330 2110.69  
14.1600 2114.90

ELL

53  
14.1630 2114.50  
14.1830 2112.37  
14.2100 2112.01  
14.2300 2112.04  
14.2530 2111.91  
14.2730 2113.31  
14.3000 2112.95  
14.3200Temp 142.0  
14.3430 2113.11  
14.3700 2111.79

14.1700 2113.56  
14.1900 2112.46  
14.2130 2112.66  
14.2330 2112.76  
14.2600 2114.36  
14.2800 2113.32  
14.3030 2113.32  
14.3230 2112.37  
14.3500 2112.56  
14.3700Temp 142.0

14.1700Temp 141.6  
14.1930 2112.56  
14.2200 2112.66  
14.2400 2112.46  
14.2700 2113.76  
14.2900 2113.03  
14.3100 2112.66  
14.3300 2112.02  
14.3530 2113.40  
14.3730 2111.60

14.1730 2113.55  
14.2000 2112.13  
14.2200Temp 142.0  
14.2430 2111.42  
14.2700 2113.20  
14.2930 2112.02  
14.3200 2113.59  
14.3400 2112.72  
14.3630 2113.24  
14.3830 2112.04

14.1800 2113.69  
14.2030 2112.67  
14.2230 2112.56  
14.2500 2112.12  
14.2700Temp 142.0  
14.2930 2112.66  
14.3200 2113.69  
14.3400 2112.93  
14.3630 2112.66  
14.3830 2111.98

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FILM  
FLOETROL  
Schlumberger

14.3900	2111.79	14.3930	2111.05	14.4000	2110.24	14.4030	2107.55	14.4100	2109.29
14.4130	2110.05	14.4200	2109.00	14.4200temp	142.0	14.4230	2109.76	14.4300	2109.74
14.4330	2106.59	14.4400	2109.16	14.4430	2108.62	14.4500	2109.22	14.4530	2109.87
14.4600	2109.70	14.4630	2109.16	14.4700	2109.72	14.4700temp	142.0	14.4730	2110.03
14.4800	2110.01	14.4830	2109.25	14.4900	2109.05	14.4930	2110.45	14.5000	2110.28
14.5030	2110.11	14.5100	2109.20	14.5130	2109.60	14.5200	2110.45	14.5200temp	142.0
14.5230	2110.30	14.5300	2110.22	14.5330	2110.34	14.5400	2109.99	14.5430	2109.41
14.5500	2110.26	14.5530	2110.63	14.5600	2110.90	14.5630	2109.97	14.5700	2109.93
14.5700temp	142.0	14.5730	2110.77	14.5800	2110.69	14.5830	2109.96	14.5900	2109.79
14.5930	2109.46	15.0000	2109.52	15.0030	2110.14	15.0100	2110.36	15.0130	2109.29

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FILM

15.0200	2109.26	15.0200temp	141.6	15.0230	2110.13	15.0300	2110.13	15.0330	2110.09
15.0400	2106.54	15.0430	2109.14	15.0500	2109.45	15.0530	2109.64	15.0600	2109.33
15.0630	2110.50	15.0700	2110.57	15.0700temp	141.6	15.0730	2110.32	15.0800	2109.41
15.0830	2109.77	15.0900	2110.97	15.0930	2111.98	15.1000	2112.57	15.1030	2112.65
15.1100	2114.00	15.1200	2116.20	15.1200	2118.14	15.1200temp	142.0	15.1230	2112.42
15.1300	2120.77	15.1330	2116.55	15.1400	2113.28	15.1430	2112.59	15.1500	2113.40
15.1530	2113.32	15.1600	2114.81	15.1630	2114.50	15.1700	2112.84	15.1700temp	142.0
15.1730	2112.16	15.1800	2110.90	15.1830	2110.53	15.1900	2110.63	15.1930	2111.25
15.2000	2111.64	15.2030	2112.25	15.2100	2112.51	15.2130	2114.58	15.2200	2116.94
15.2200temp	142.0	15.2230	2115.99	15.2300	2115.35	15.2330	2117.78	15.2400	2121.85

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FILM

15.2430	2122.15	15.2500	2116.12	15.2530	2117.35	15.2600	2117.60	15.2630	2116.00
15.2700	2115.10	15.2700temp	142.0	15.2730	2113.84	15.2800	2112.38	15.2830	2111.74
15.2900	2111.11	15.2930	2112.29	15.3000	2112.65	15.3030	2073.00	15.3100	2051.93
15.3130	2037.24	15.3200	2030.26	15.3200temp	141.8	15.3230	2026.97	15.3300	2025.39
15.3330	2024.66	15.3400	2023.72	15.3430	2032.14	15.3500	2041.00	15.3530	2047.58
15.3600	2052.63	15.3630	2057.13	15.3700	2059.47	15.3700temp	140.9	15.3730	2062.41
15.3800	2064.76	15.3830	2066.89	15.3900	2067.30	15.3930	2068.48	15.4000	2069.31
15.4030	2070.63	15.4100	2068.99	15.4130	2069.07	15.4200	2070.71	15.4200temp	140.7
15.4230	2072.09	15.4300	2073.39	15.4330	2074.07	15.4400	2069.12	15.4430	2065.37
15.4500	2065.50	15.4530	2066.51	15.4600	2067.50	15.4630	2069.44	15.4700	2067.39

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FILM

15.4700temp	140.7	15.4730	2066.09	15.4800	2067.67	15.4830	2068.09	15.4900	2070.40
15.4930	2072.70	15.5000	2074.19	15.5030	2074.20	15.5100	2073.06	15.5130	2073.31
15.5200	2073.23	15.5200temp	140.7	15.5230	2074.14	15.5300	2075.05	15.5330	2076.54
15.5400	2076.19	15.5430	2077.33	15.5500	2077.95	15.5530	2078.11	15.5600	2076.00
15.5630	2077.06	15.5700	2079.04	15.5700temp	140.7	15.5730	2076.33	15.5800	2066.54
15.5830	2056.42	15.5900	2052.15	15.5930	2047.22	16.0000	2043.53	16.0030	2041.20
16.0100	2039.44	16.0130	2039.35	16.0200	2036.05	16.0200temp	140.5	16.0230	2034.33
16.0300	2035.96	16.0330	2037.00	16.0400	2037.41	16.0430	2037.75	16.0500	2036.07
16.0530	2036.17	16.0600	2036.36	16.0630	2038.21	16.0700	2038.49	16.0700temp	140.2
16.0730	2036.65	16.0800	2036.65	16.0830	2038.67	16.0900	2038.67	16.0930	2036.64

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FILM

16.1000	2036.66	16.1030	2036.56	16.1100	2038.01	16.1130	2038.43	16.1200	2036.53
16.1200temp	140.0	16.1230	2036.51	16.1300	2038.34	16.1330	2038.48	16.1400	2038.42
16.1430	2036.49	16.1500	2036.39	16.1530	2037.85	16.1600	2038.14	16.1630	2038.28
16.1700	2036.34	16.1700temp	140.0	16.1730	2038.11	16.1800	2037.97	16.1830	2036.32
16.1900	2036.26	16.1930	2036.38	16.2000	2038.38	16.2030	2038.03	16.2100	2038.32
16.2130	2038.05	16.2200	2038.09	16.2200temp	140.0	16.2230	2036.30	16.2300	2036.31
16.2330	2036.10	16.2400	2036.14	16.2430	2037.52	16.2500	2038.08	16.2530	2036.09
16.2600	2036.05	16.2630	2037.95	16.2700	2036.27	16.2700temp	139.6	16.2730	2036.34
16.2800	2036.25	16.2830	2036.03	16.2900	2036.69	16.2930	2037.45	16.3000	2036.21
16.3030	2037.90	16.3100	2036.23	16.3130	2037.26	16.3200	2037.60	16.3200temp	139.6

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FILED  
FLOETWOL  
Schlumberger

16.3230	2037.59	16.3300	2037.90	2038.11	16.3400	2037.82	16.3430	2038.05
16.3500	2037.88	16.3530	2037.76	2037.92	16.3630	2037.96	16.3700	2037.88
16.3700Temp 139.8	2037.92	16.3730	2037.92	2037.86	16.3800	2037.90	16.3900	2037.30
16.3930	2037.69	16.4000	2037.82	2037.72	16.4100	2037.55	16.4130	2037.92
16.4200	2037.92	16.4200Temp 139.8	2037.88	2037.82	16.4300	2037.42	16.4330	2036.71
16.4400	2036.92	16.4430	2037.58	2037.45	16.4530	2037.31	16.4600	2037.03
16.4630	2037.82	16.4700	2037.79	2037.62	16.4730	2037.73	16.4800	2037.30
16.4830	2037.73	16.4900	2037.94	2037.86	16.5000	2037.82	16.5030	2037.69
16.5100	2036.78	16.5130	2036.47	2037.38	16.5200Temp 139.6	2037.82	16.5230	2038.42
16.5300	2037.92	16.5330	2037.92	2037.96	16.5430	2037.94	16.5500	2037.80

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FILED

16.5530	2037.86	16.5600	2037.88	2037.82	16.5700	2037.69	16.5700Temp 139.6	2038.22
16.5730	2037.96	16.5800	2037.96	2038.07	16.5900	2038.18	16.5930	2037.96
17.0000	2036.45	17.0030	2038.70	2038.31	17.0130	2038.02	17.0200	2037.34
17.0200Temp 139.8	2037.8	17.0230	2038.15	2037.78	17.0330	2037.69	17.0400	2037.98
17.0430	2037.74	17.0500	2037.82	2037.86	17.0600	2037.67	17.0630	2038.15
17.0700	2038.03	17.0700Temp 139.8	2038.79	2038.21	17.0800	2038.52	17.0830	2039.62
17.0900	2038.83	17.0930	2040.14	2039.00	17.1030	2039.31	17.1100	2039.91
17.1130	2039.85	17.1200	2039.37	2040.90	17.1230	2040.20	17.1300	2041.34
17.1330	2039.33	17.1400	2039.37	2040.90	17.1500	2040.82	17.1530	2041.00
17.1600	2041.09	17.1630	2040.82	2040.92	17.1700Temp 139.6	2040.82	17.1730	2041.00

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FILED

17.1800	2041.00	17.1830	2041.15	2041.44	17.1900	2041.46	17.2000	2041.30
17.2030	2041.03	17.2100	2041.34	2041.54	17.2200	2041.34	17.2200Temp 139.8	2041.52
17.2230	2041.05	17.2300	2041.56	2041.52	17.2400	2041.52	17.2430	2040.03
17.2500	2041.63	17.2530	2040.80	2040.83	17.2630	2040.55	17.2700	2042.35
17.2700Temp 139.8	2042.41	17.2730	2041.38	2042.33	17.2830	2042.23	17.2900	2042.41
17.2930	2042.41	17.3000	2042.35	2042.31	17.3100	2042.18	17.3130	2041.24
17.3200	2041.69	17.3200Temp 139.8	2040.98	2041.63	17.3300	2041.40	17.3330	2040.66
17.3400	2041.10	17.3430	2040.98	2040.98	17.3500	2041.02	17.3600	2040.61
17.3630	2040.61	17.3700	2040.84	2040.92	17.3730	2040.55	17.3800	2040.30
17.3830	2040.30	17.3900	2040.64	2040.37	17.4000	2039.91	17.4030	2041.30

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FILED

17.4100	2041.09	17.4130	2040.66	2041.48	17.4200	2041.48	17.4230	2041.96
17.4300	2042.50	17.4330	2042.48	2042.00	17.4400	2042.53	17.4500	2041.77
17.4530	2041.61	17.4600	2041.53	2041.36	17.4700	2041.21	17.4700Temp 140.0	2042.93
17.4730	2042.31	17.4800	2042.06	2042.85	17.4900	2043.06	17.5200	2042.92
17.5000	2043.06	17.5030	2043.06	2043.37	17.5130	2043.26	17.5400	2044.24
17.5200Temp 140.0	2042.31	17.5230	2042.31	2042.04	17.5330	2041.77	17.5630	2042.21
17.5430	2043.86	17.5500	2043.72	2043.84	17.5600	2043.00	17.5630	2043.16
17.5700	2043.35	17.5700Temp 140.0	2042.60	2042.25	17.5800	2042.99	18.0100	2043.93
17.5900	2042.21	17.5930	2042.60	2042.71	18.0030	2043.76	18.0300	2042.93
18.0130	2043.28	18.0200	2043.51	2040.70	18.0230	2043.76	18.0530	2043.74

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FILED

18.0330	2043.28	18.0400	2043.14	2042.70	18.0500	2042.60	18.0530	2043.80
18.0600	2043.06	18.0630	2042.10	2042.11	18.0700Temp 140.0	2043.74	18.1000	2044.65
18.0800	2044.28	18.0830	2043.95	2043.35	18.1200	2043.37	18.1430	2044.84
18.1030	2044.15	18.1100	2043.76	2044.24	18.1300	2045.40	18.1700	2043.95
18.1230	2042.93	18.1300	2042.68	2044.11	18.1630	2045.00	18.1900	2045.17
18.1500	2044.79	18.1530	2045.11	2045.06	18.1800	2043.26	18.2130	2043.03
18.1700Temp 140.0	2044.40	18.1800	2044.40	2044.69	18.2100	2044.55	18.2330	2043.63
18.1930	2044.20	18.2000	2044.59	2044.79	18.2230	2044.55	18.2600	2043.63
18.2200	2044.62	18.2200Temp 140.0	2045.47	2044.52	18.2530	2043.61	18.2800	2043.63
18.2400	2044.63	18.2430	2045.47	2044.52	18.2530	2043.61	18.2800	2043.63

FILMS

FLOPETROL

Schlumberger

04

16.2030	2045.25	16.2700	2046.27	16.2700temp 140.0	18.2730	2046.04	18.2800	2046.58
16.2830	2046.60	18.2900	2046.47	18.2930	2045.87	2045.87	18.3030	2046.27
16.3100	2045.79	16.3130	2062.66	18.3200	2230.34	140.0	18.3230	2262.47
16.3300	2262.64	18.3330	2262.58	18.3400	2262.44	2262.30	18.3500	2262.20
16.3530	2262.06	16.3600	2262.04	18.3630	2261.94	2261.93	18.3700temp	142.0
16.3730	2261.90	16.3800	2261.86	18.3830	2261.91	2261.91	18.3930	2261.93
16.4000	2261.96	16.4030	2261.98	18.4100	2261.90	2261.97	18.4200	2261.99
16.4200temp	142.7	16.4230	2261.97	18.4300	2261.99	2261.95	18.4400	2261.89
16.4430	2261.89	16.4500	2261.87	18.4530	2261.87	2261.89	18.4630	2261.91
16.4700	2261.93	16.4700temp	142.7	18.4730	2261.94	2261.97	18.4830	2261.98

FILMS

05

16.4900	2261.99	18.4930	2261.98	16.5000	2261.99	2262.01	16.5100	2262.04
16.5130	2262.07	16.5200	2262.12	18.5200temp	142.3	2262.15	18.5300	2262.18
16.5330	2262.22	16.5400	2262.25	18.5430	2262.30	2262.35	18.5530	2262.39
16.5600	2262.44	18.5630	2262.45	18.5700	2262.47	2262.51	18.5730	2262.51
16.5800	2262.52	18.5830	2262.53	18.5900	2262.52	2262.57	19.0000	2262.58
19.0030	2262.61	19.0100	2262.58	19.0130	2262.60	2262.61	19.0200temp	141.3
19.0230	2262.60	19.0300	2262.58	19.0330	2262.61	2262.61	19.0430	2262.60
19.0500	2262.58	19.0530	2262.56	19.0600	2262.57	2262.58	19.0700	2262.56
19.0700temp	141.1	19.0730	2262.56	19.0800	2262.59	2262.57	19.0900	2262.56
19.0930	2262.56	19.1000	2262.55	19.1030	2262.55	2262.56	19.1130	2262.56

FILMS

06

19.1200	2262.55	19.1200temp	140.9	19.1230	2262.55	2262.56	19.1330	2262.54
19.1400	2262.57	19.1430	2262.55	19.1500	2262.54	2262.52	19.1600	2262.54
19.1630	2262.55	19.1700	2262.53	19.1700temp	140.7	2262.56	19.1800	2262.52
19.1830	2262.54	19.1900	2262.52	19.1930	2262.51	2262.51	19.2030	2262.51
19.2100	2262.49	19.2130	2262.52	19.2200	2262.46	2262.51	19.2230	2262.52
19.2300	2262.50	19.2330	2262.51	19.2400	2262.49	2262.49	19.2500	2262.49
19.2530	2262.49	19.2600	2262.48	19.2630	2262.50	2262.46	19.2700temp	140.5
19.2730	2262.46	19.2800	2262.49	19.2830	2262.47	2262.47	19.2930	2262.47
19.3000	2262.44	19.3030	2262.44	19.3100	2262.44	2262.44	19.3200	2262.47
19.3200temp	140.4	19.3230	2262.45	19.3300	2262.47	2262.45	19.3400	2262.44

FILMS

07

19.3430	2262.44	19.3500	2262.44	19.3530	2262.46	2262.44	19.3630	2262.45
19.3700	2262.45	19.3700temp	140.2	19.3730	2262.42	2262.43	19.3830	2262.42
19.3900	2262.39	19.3930	2262.39	19.4000	2262.38	2262.36	19.4100	2262.20
19.4130	2262.70	19.4200	2262.82	19.4200temp	140.7	2262.70	19.4300	2262.66
19.4330	2262.62	19.4400	2262.53	19.4430	2262.31	2262.41	19.4530	2262.30
19.4600	2262.30	19.4630	2262.31	19.4700	2262.31	2262.31	19.4730	2262.26
19.4800	2262.29	19.4830	2262.31	19.4900	2262.30	2262.31	19.5000	2262.31
19.5030	2262.29	19.5100	2262.29	19.5130	2262.29	2262.22	19.5200temp	142.2
19.5230	2262.17	19.5300	2262.13	19.5330	2262.14	2262.14	19.5430	2262.17
19.5500	2262.17	19.5530	2262.16	19.5600	2262.20	2262.20	19.5700	2262.23

FILMS

08

19.5700temp	142.0	19.5730	2262.21	19.5800	2262.24	2262.20	19.5900	2262.20
19.5930	2262.21	20.0000	2262.21	20.0030	2262.30	2262.30	20.0130	2262.31
20.0200	2262.23	20.0200temp	141.0	20.0230	2262.32	2262.34	20.0330	2262.33
20.0400	2262.30	20.0430	2262.45	20.0500	2262.45	2262.51	20.0600	2262.34
20.0630	2262.30	20.0700	2262.57	20.0700temp	141.4	2262.50	20.0800	2262.36
20.0930	2262.30	20.0900	2262.30	20.0930	2262.61	2262.61	20.1030	2262.60
20.1100	2262.30	20.1130	2262.30	20.1200	2262.62	2262.72	20.1230	2262.62
20.1300	2262.30	20.1330	2262.30	20.1400	2262.62	2262.52	20.1500	2262.70
20.1630	2262.71	20.1600	2262.60	20.1630	2262.62	2262.51	20.1700temp	140.9
20.1730	2262.43	20.1800	2262.31	20.1830	2262.52	2262.52	20.1930	2262.50



FLOETROL  
Schlumberger

74  
22.1330 2202.71  
22.1600 2202.61  
22.1800 2202.57  
22.2030 2202.51  
22.2230 2202.46  
22.2500 2202.40  
22.2700Temp 139.3  
22.2930 2202.35  
22.3200 2202.42  
22.3400 2202.30

22.1400 2202.71  
22.1630 2202.59  
22.1830 2202.55  
22.2100 2202.50  
22.2300 2202.46  
22.2530 2202.42  
22.2730 2202.38  
22.3000 2202.35  
22.3200Temp 139.3  
22.3430 2202.30

22.1430 2202.07  
22.1700 2202.53  
22.1900 2202.53  
22.2130 2202.50  
22.2330 2202.46  
22.2600 2202.42  
22.2800 2202.46  
22.3030 2202.36  
22.3230 2202.36  
22.3500 2202.27

22.1500 2202.65  
22.1700Temp 139.3  
22.1930 2202.51  
22.2200 2202.50  
22.2400 2202.46  
22.2630 2202.46  
22.2830 2202.42  
22.3100 2202.38  
22.3300 2202.36  
22.3530 2202.29

22.1530 2202.59  
22.1730 2202.51  
22.2000 2202.51  
22.2200Temp 139.3  
22.2430 2202.42  
22.2700 2202.42  
22.2900 2202.39  
22.3130 2202.40  
22.3330 2202.32  
22.3600 2202.34

FILE

75  
22.3630 2202.30  
22.3830 2202.27  
22.4100 2202.26  
22.4300 2202.46  
22.4530 2202.37  
22.4730 2202.31  
22.5000 2202.36  
22.5200Temp 138.9  
22.5430 2202.41  
22.5700 2202.43

22.3700 2202.27  
22.3900 2202.29  
22.4130 2202.27  
22.4330 2202.44  
22.4600 2202.35  
22.4800 2202.37  
22.5030 2202.44  
22.5230 2202.45  
22.5500 2202.45  
22.5700Temp 138.9

22.3700Temp 139.3  
22.3930 2202.30  
22.4200 2202.29  
22.4400 2202.42  
22.4630 2202.35  
22.4830 2202.37  
22.5100 2202.42  
22.5300 2202.48  
22.5530 2202.47  
22.5730 2202.45

22.3730 2202.27  
22.4000 2202.30  
22.4200Temp 139.1  
22.4430 2202.42  
22.4700 2202.35  
22.4900 2202.35  
22.5130 2202.46  
22.5330 2202.47  
22.5600 2202.43  
22.5800 2202.41

22.3800 2202.29  
22.4030 2202.28  
22.4230 2202.33  
22.4500 2202.44  
22.4700Temp 139.1  
22.4930 2202.32  
22.5200 2202.43  
22.5400 2202.45  
22.5630 2202.47  
22.5830 2202.41

FILE

76  
22.5900 2202.40  
23.0130 2202.49  
23.0330 2202.41  
23.0500 2202.35  
23.0800 2202.45  
23.1030 2202.43  
23.1230 2202.37  
23.1500 2202.35  
23.1700Temp 138.7  
23.1930 2202.35

22.5930 2202.44  
23.0200 2202.45  
23.0400 2202.43  
23.0630 2202.43  
23.0830 2202.43  
23.1100 2202.43  
23.1300 2202.36  
23.1530 2202.37  
23.1730 2202.37  
23.2000 2202.41

23.0000 2202.46  
23.0200Temp 138.9  
23.0430 2202.41  
23.0700 2202.43  
23.0900 2202.45  
23.1130 2202.43  
23.1330 2202.40  
23.1600 2202.39  
23.1800 2202.39  
23.2030 2202.41

23.0030 2202.50  
23.0230 2202.41  
23.0500 2202.39  
23.0700Temp 138.9  
23.0930 2202.43  
23.1200 2202.41  
23.1400 2202.38  
23.1630 2202.39  
23.1830 2202.39  
23.2100 2202.39

23.0100 2202.48  
23.0300 2202.39  
23.0530 2202.37  
23.0730 2202.45  
23.1000 2202.45  
23.1200Temp 138.9  
23.1430 2202.38  
23.1700 2202.35  
23.1900 2202.39  
23.2130 2202.37

FILE

77  
23.2200 2202.41  
23.2400 2202.40  
23.2630 2202.36  
23.2830 2202.32  
23.3100 2202.30  
23.3300 2202.30  
23.3530 2202.26  
23.3730 2202.24  
23.4000 2202.33  
23.4200Temp 138.6

23.2200Temp 138.7  
23.2430 2202.40  
23.2700 2202.34  
23.2900 2202.32  
23.3130 2202.28  
23.3330 2202.30  
23.3600 2202.26  
23.3800 2202.25  
23.4030 2202.32  
23.4230 2202.26

23.2230 2202.40  
23.2500 2202.37  
23.2700Temp 138.7  
23.2930 2202.34  
23.3200 2202.30  
23.3400 2202.26  
23.3630 2202.26  
23.3830 2202.25  
23.4100 2202.30  
23.4300 2202.24

23.2300 2202.48  
23.2530 2202.35  
23.2730 2202.36  
23.3000 2202.30  
23.3200Temp 138.7  
23.3430 2202.28  
23.3700 2202.26  
23.3900 2202.29  
23.4130 2202.28  
23.4330 2202.26

23.2330 2202.40  
23.2600 2202.35  
23.2800 2202.32  
23.3030 2202.30  
23.3230 2202.30  
23.3500 2202.28  
23.3700Temp 138.7  
23.3930 2202.33  
23.4200 2202.24  
23.4400 2202.26

FILE

78  
23.4430 2202.24  
23.4700 2202.28  
23.4900 2202.26  
23.5130 2202.26  
23.5330 2202.25  
23.5500 2202.24  
23.5800 2202.23  
0.0030 2202.25  
0.0230 2202.40  
0.0500 2202.43

23.4500 2202.26  
23.4700Temp 138.6  
23.4930 2202.24  
23.5200 2202.24  
23.5400 2202.25  
23.5630 2202.25  
23.5830 2202.27  
0.0100 2202.31  
0.0300 2202.42  
0.0530 2202.43

23.4530 2202.26  
23.4730 2202.24  
23.5000 2202.24  
23.5200Temp 138.6  
23.5430 2202.26  
23.5700 2202.23  
23.5900 2202.23  
0.0130 2202.36  
0.0330 2202.41  
0.0600 2202.42

23.4600 2202.26  
23.4800 2202.24  
23.5030 2202.24  
23.5230 2202.25  
23.5500 2202.24  
23.5700Temp 138.6  
23.5930 2202.25  
0.0200 2202.39  
0.0400 2202.41  
0.0700 2202.44

23.4630 2202.26  
23.4830 2202.24  
23.5100 2202.26  
23.5300 2202.27  
23.5530 2202.22  
23.5730 2202.25  
0.0000 2202.27  
0.0200Temp 138.6  
0.0430 2202.43  
0.0700 2202.44

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FILE  
FLOETROL  
Schlumberger

0.0730	2262.44	0.0800	2262.44	0.0830	2262.38	0.0900	2262.42
0.1000	2262.42	0.1030	2262.42	0.1100	2262.38	0.1130	2262.40
0.1200	Temp 138.6	0.1230	2262.38	0.1300	2262.38	0.1330	2262.38
0.1430	2262.36	0.1500	2262.34	0.1530	2262.30	0.1600	2262.32
0.1700	2262.30	0.1700	Temp 138.6	0.1730	2262.28	0.1800	2262.28
0.1900	2262.26	0.1930	2262.26	0.2000	2262.24	0.2030	2262.24
0.2130	2262.23	0.2200	2262.24	0.2200	Temp 138.6	0.2230	2262.25
0.2330	2262.21	0.2400	2262.21	0.2430	2262.22	0.2500	2262.24
0.2600	2262.24	0.2630	2262.25	0.2700	2262.23	0.2700	Temp 138.6
0.2800	2262.23	0.2830	2262.21	0.2900	2262.23	0.2930	2262.21

FILE

0.3000	2262.21	0.3100	2262.23	0.3130	2262.21	0.3200	2262.23
0.3200	Temp 138.6	0.3300	2262.21	0.3330	2262.23	0.3400	2262.23
0.3430	2262.23	0.3500	2262.23	0.3600	2262.21	0.3630	2262.23
0.3700	2262.21	0.3700	Temp 138.6	0.3800	2262.23	0.3830	2262.21
0.3900	2262.23	0.3930	2262.23	0.4000	2262.25	0.4100	2262.25
0.4130	2262.23	0.4200	2262.21	0.4230	2262.23	0.4300	2262.19
0.4330	2262.21	0.4400	2262.21	0.4500	2262.21	0.4530	2262.23
0.4600	2262.21	0.4700	2262.21	0.4700	Temp 138.6	0.4730	2262.21
0.4800	2262.21	0.4900	2262.20	0.4930	2262.22	0.5000	2262.20
0.5030	2262.20	0.5100	2262.21	0.5200	2262.21	0.5200	Temp 138.6

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FILE

0.5230	2262.21	0.5300	2262.21	0.5400	2262.21	0.5430	2262.21
0.5500	2262.21	0.5530	2262.21	0.5630	2262.23	0.5700	2262.19
0.5700	Temp 138.6	0.5730	2262.21	0.5800	2262.22	0.5900	2262.22
0.5930	2262.20	1.0000	2262.22	1.0030	2262.21	1.0130	2262.21
1.0200	Temp 138.6	1.0230	2262.19	1.0300	2262.23	1.0330	2262.23
1.0400	2262.19	1.0430	2262.18	1.0530	2262.21	1.0600	2262.21
1.0630	2262.21	1.0700	2262.19	1.0730	2262.21	1.0800	2262.19
1.0930	2262.19	1.0900	2262.19	1.1000	2262.19	1.1030	2262.19
1.1100	2262.21	1.1130	2262.18	1.1200	Temp 138.6	1.1230	2262.20
1.1300	2262.26	1.1330	2262.26	1.1400	2262.24	1.1500	2262.30

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FILE

1.1530	2262.50	1.1600	2262.62	1.1630	2262.64	1.1700	Temp 138.2
1.1730	2262.68	1.1800	2262.66	1.1830	2262.66	1.1930	2262.65
1.2000	2262.65	1.2030	2262.63	1.2100	2262.63	1.2200	2262.58
1.2200	Temp 138.2	1.2230	2262.57	1.2300	2262.57	1.2400	2262.53
1.2430	2262.54	1.2500	2262.54	1.2530	2262.52	1.2630	2262.51
1.2700	2262.49	1.2700	Temp 138.2	1.2730	2262.47	1.2830	2262.43
1.2900	2262.41	1.2930	2262.41	1.3000	2262.41	1.3100	2262.35
1.3130	2262.33	1.3200	2262.35	1.3200	Temp 138.2	1.3300	2262.29
1.3330	2262.26	1.3400	2262.26	1.3430	2262.24	1.3530	2262.26
1.3600	2262.26	1.3630	2262.24	1.3700	2262.24	1.3730	2262.24

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FILE

1.3800	2262.24	1.3900	2262.24	1.3930	2262.24	1.4000	2262.20
1.4100	2262.24	1.4130	2262.24	1.4200	2262.35	1.4200	Temp 138.2
1.4230	2262.35	1.4300	2262.37	1.4400	2262.35	1.4430	2262.45
1.4500	2262.45	1.4600	2262.47	1.4630	2262.45	1.4700	2262.41
1.4700	Temp 138.2	1.4730	2262.39	1.4800	2262.41	1.4900	2262.41
1.4930	2262.41	1.5000	2262.41	1.5100	2262.43	1.5130	2262.45
1.5200	2262.41	1.5230	2262.43	1.5300	2262.40	1.5330	2262.38
1.5400	2262.30	1.5430	2262.34	1.5500	2262.37	1.5500	2262.35
1.5630	2262.39	1.5700	2262.30	1.5730	2262.30	1.5800	2262.41
1.5830	2262.30	1.5900	2262.30	1.5930	2262.34	1.6000	2262.39

FLOETROL  
Schlumberger

2.0100	2262.39	2.0200	2262.38	2.0200Temp 138.0	2.0230	2262.34
2.0300	2262.41	2.0400	2262.36	2.0430	2.0500	2262.36
2.0530	2262.39	2.0630	2262.39	2.0700	2.0700Temp 138.0	2262.44
2.0730	2262.36	2.0800	2262.44	2.0900	2.0930	2262.44
2.1000	2262.52	2.1030	2262.51	2.1100	2.1130	2262.40
2.1200Temp 136.0	2262.44	2.1300	2262.44	2.1330	2.1400	2262.40
2.1430	2262.40	2.1530	2262.34	2.1600	2.1630	2262.32
2.1700	2262.34	2.1730	2262.32	2.1800	2.1830	2262.32
2.1900	2262.34	2.2000	2262.30	2.2030	2.2100	2262.30
2.2130	2262.36	2.2200	2262.30	2.2230	2.2300	2262.34

Flow

2.2330	2262.31	2.2400	2262.27	2.2500	2.2530	2262.25
2.2600	2262.24	2.2630	2262.22	2.2700Temp 137.8	2.2730	2262.21
2.2800	2262.25	2.2900	2262.25	2.2930	2.3000	2262.26
2.3030	2262.25	2.3100	2262.25	2.3200Temp 137.8	2.3230	2262.25
2.3300	2262.25	2.3330	2262.25	2.3400	2.3430	2262.25
2.3500	2262.25	2.3600	2262.25	2.3700	2.3730	2262.25
2.3700Temp 137.8	2262.21	2.3800	2262.25	2.3900	2.3930	2262.23
2.4000	2262.21	2.4030	2262.25	2.4100	2.4130	2262.23
2.4200	2262.21	2.4230	2262.23	2.4300	2.4330	2262.21
2.4400	2262.21	2.4430	2262.23	2.4500	2.4530	2262.21

Flow

2.4630	2262.23	2.4700Temp 137.8	2.4730	2.4800	2.4830	2262.21
2.4900	2262.23	2.4930	2262.23	2.5000	2.5030	2262.21
2.5100	2262.19	2.5200	2262.23	2.5300	2.5330	2262.21
2.5400	2262.19	2.5500	2262.19	2.5600	2.5700Temp 137.8	2262.21
2.5730	2262.19	2.5800	2262.23	2.5900	2.5930	2262.19
3.0000	2262.17	3.0100	2262.21	3.0130	3.0200	2262.19
3.0200Temp 137.8	2262.17	3.0300	2262.21	3.0330	3.0400	2262.22
3.0430	2262.24	3.0500	2262.16	3.0530	3.0600	2262.23
3.0700	2262.23	3.0730	2262.21	3.0800	3.0830	2262.23

Flow

3.0900	2262.23	3.1000	2262.19	3.1030	3.1100	2262.19
3.1130	2262.19	3.1200	2262.19	3.1230	3.1300	2262.19
3.1330	2262.19	3.1400	2262.21	3.1430	3.1500	2262.21
3.1600	2262.21	3.1700	2262.23	3.1700Temp 137.7	3.1730	2262.21
3.1800	2262.21	3.1900	2262.21	3.1930	3.2000	2262.21
3.2030	2262.21	3.2130	2262.21	3.2200	3.2200Temp 137.7	2262.21
3.2300	2262.19	3.2330	2262.19	3.2400	3.2430	2262.19
3.2500	2262.17	3.2600	2262.17	3.2630	3.2700	2262.19
3.2700Temp 137.7	2262.17	3.2730	2262.17	3.2800	3.2900	2262.17
3.2930	2262.17	3.3000	2262.17	3.3100	3.3130	2262.17

Flow

3.3200	2262.19	3.3230	2262.19	3.3300	3.3330	2262.19
3.3430	2262.20	3.3500	2262.20	3.3530	3.3600	2262.19
3.3700	2262.20	3.3700Temp 137.7	2262.19	3.3800	3.3900	2262.19
3.3930	2262.20	3.4000	2262.20	3.4030	3.4100	2262.20
3.4130	2262.20	3.4200	2262.20	3.4230	3.4300	2262.20
3.4400	2262.20	3.4430	2262.20	3.4500	3.4500Temp 137.7	2262.20
3.4600	2262.20	3.4630	2262.20	3.4700	3.4730	2262.20
3.4800	2262.20	3.4830	2262.20	3.4900	3.4930	2262.20
3.5000	2262.20	3.5100	2262.20	3.5130	3.5200	2262.20
3.5200Temp 137.7	2262.20	3.5300	2262.20	3.5330	3.5400	2262.20

FILED  
 FLORENCE  
 Schlumberger

3. 2430 2262.02  
 3. 3700 2262.56  
 3. 5900 2262.54  
 4. 0130 2262.50  
 4. 0330 2262.48  
 4. 0500 2262.46  
 4. 0600 2262.44  
 4. 0600 2262.40  
 4. 1030 2262.36  
 4. 1230 2262.34  
 4. 1500 2262.33

3. 5300 2262.02  
 3. 5730 2262.56  
 4. 0000 2262.52  
 4. 0200 2262.48  
 4. 0430 2262.46  
 4. 0700 2262.42  
 4. 0900 2262.44  
 4. 1130 2262.36  
 4. 1330 2262.34  
 4. 1600 2262.31

FILED

4. 1730 2262.33  
 4. 2000 2262.25  
 4. 2200 2262.27  
 4. 2430 2262.24  
 4. 2700 2262.21  
 4. 2900 2262.23  
 4. 3130 2262.21  
 4. 3330 2262.19  
 4. 3600 2262.17  
 4. 3600 2262.17

4. 4000 2262.17  
 4. 4200 2262.19  
 4. 4400 2262.17  
 4. 4700 2262.19  
 4. 4900 2262.17  
 4. 5130 2262.17  
 4. 5330 2262.15  
 4. 5600 2262.17  
 4. 5600 2262.16  
 5. 0100 2262.19

FILED

4. 4030 2262.19  
 4. 4230 2262.19  
 4. 4500 2262.19  
 4. 4730 2262.19  
 4. 4930 2262.17  
 4. 5200 2262.19  
 4. 5400 2262.15  
 4. 5630 2262.15  
 4. 5630 2262.18  
 5. 0100 2262.19

5. 0230 2262.16  
 5. 0500 2262.16  
 5. 0700 2262.16  
 5. 0930 2262.18  
 5. 1200 2262.16  
 5. 1430 2262.14  
 5. 1700 2262.12  
 5. 1900 2262.12  
 5. 2130 2262.12  
 5. 2300 2262.10

FILED

5. 0300 2262.16  
 5. 0530 2262.16  
 5. 0730 2262.18  
 5. 1000 2262.16  
 5. 1200 2262.16  
 5. 1430 2262.14  
 5. 1700 2262.12  
 5. 1900 2262.12  
 5. 2130 2262.12  
 5. 2330 2262.10

5. 2530 2262.06  
 5. 2730 2262.06  
 5. 3000 2262.11  
 5. 3200 2262.14  
 5. 3430 2262.14  
 5. 3700 2262.12  
 5. 3900 2262.12  
 5. 4130 2262.10  
 5. 4330 2262.12  
 5. 4600 2262.14

FILED

5. 2000 2262.06  
 5. 2000 2262.10  
 5. 3030 2262.11  
 5. 3230 2262.12  
 5. 3500 2262.12  
 5. 3700 2262.12  
 5. 3930 2262.12  
 5. 4200 2262.12  
 5. 4400 2262.14  
 5. 4630 2262.12

3. 5030 2262.50  
 3. 5630 2262.56  
 4. 0100 2262.50  
 4. 0300 2262.48  
 4. 0530 2262.40  
 4. 0730 2262.42  
 4. 1000 2262.36  
 4. 1200 2262.38  
 4. 1430 2262.34  
 4. 1700 2262.29

4. 1900 2262.25  
 4. 2130 2262.23  
 4. 2330 2262.24  
 4. 2600 2262.23  
 4. 2800 2262.23  
 4. 3030 2262.21  
 4. 3230 2262.23  
 4. 3500 2262.19  
 4. 3700 2262.17  
 4. 3930 2262.17

4. 4200 2262.17  
 4. 4400 2262.19  
 4. 4630 2262.19  
 4. 4830 2262.17  
 4. 5100 2262.17  
 4. 5300 2262.15  
 4. 5530 2262.15  
 4. 5730 2262.16  
 5. 0000 2262.19  
 5. 0200 2262.16

5. 0430 2262.14  
 5. 0700 2262.16  
 5. 0900 2262.16  
 5. 1130 2262.16  
 5. 1330 2262.14  
 5. 1600 2262.14  
 5. 1800 2262.10  
 5. 2030 2262.12  
 5. 2230 2262.10  
 5. 2500 2262.12

5. 2700 2262.10  
 5. 2930 2262.13  
 5. 3200 2262.12  
 5. 3400 2262.14  
 5. 3630 2262.12  
 5. 3830 2262.10  
 5. 4100 2262.12  
 5. 4300 2262.12  
 5. 4530 2262.12  
 5. 4730 2262.12

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FILE  
FLORENZ  
Schlumberger

5.4000	2262.10	5.4900	2262.10	5.5000	2262.14
5.5030	2262.14	5.5130	2262.12	5.5200	2262.12
5.5230	2262.12	5.5330	2262.13	5.5400	2262.11
5.5500	2262.12	5.5600	2262.10	5.5630	2262.08
5.5700temp 137.3	2262.10	5.5800	2262.10	5.5900	2262.16
5.5930	2262.14	6.0000	2262.12	6.0130	2262.10
6.0200	2262.12	6.0230	2262.12	6.0300	2262.14
6.0400	2262.12	6.0500	2262.12	6.0530	2262.12
6.0630	2262.10	6.0700temp 137.3	2262.10	6.0730	2262.09
6.0830	2262.12	6.0930	2262.10	6.1000	2262.10

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FILE

6.1100	2262.09	6.1200temp 137.3	2262.10	6.1230	2262.14
6.1300	2262.12	6.1400	2262.12	6.1500	2262.12
6.1530	2262.12	6.1630	2262.12	6.1700temp 137.3	2262.10
6.1730	2262.12	6.1830	2262.12	6.1900	2262.10
6.2000	2262.10	6.2100	2262.12	6.2200	2262.12
6.2200temp 137.3	2262.11	6.2300	2262.13	6.2400	2262.13
6.2430	2262.14	6.2530	2262.16	6.2630	2262.10
6.2700	2262.15	6.2730temp 137.3	2262.17	6.2830	2262.13
6.2900	2262.13	6.3000	2262.11	6.3100	2262.15
6.3130	2262.15	6.3200temp 137.3	2262.13	6.3300	2262.11

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FILE

6.3330	2262.17	6.3430	2262.13	6.3500	2262.15
6.3600	2262.13	6.3700	2262.15	6.3700temp 137.3	2262.17
6.3630	2262.17	6.3900	2262.15	6.3930	2262.17
6.4030	2262.17	6.4130	2262.15	6.4200	2262.17
6.4230	2262.17	6.4330	2262.15	6.4400	2262.17
6.4500	2262.15	6.4600	2262.17	6.4700	2262.17
6.4700temp 137.3	2262.18	6.4800	2262.17	6.4830	2262.18
6.4930	2262.17	6.5030	2262.13	6.5100	2262.17
6.5200	2262.17	6.5230	2262.15	6.5300	2262.13
6.5400	2262.15	6.5500	2262.13	6.5530	2262.11

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6.5630	2262.15	6.5700temp 137.3	2262.13	6.5730	2262.15
6.5630	2262.15	6.5930	2262.13	7.0000	2262.13
7.0100	2262.13	7.0200	2262.15	7.0200temp 137.3	2262.13
7.0300	2262.15	7.0400	2262.15	7.0430	2262.13
7.0530	2262.13	7.0600	2262.11	7.0700	2262.17
7.0730	2262.20	7.0800	2262.42	7.0900	2262.44
7.1000	2262.51	7.1100	2262.48	7.1130	2262.51
7.1200temp 137.3	2262.53	7.1300	2262.49	7.1330	2262.51
7.1430	2262.49	7.1530	2262.46	7.1600	2262.48
7.1700	2262.44	7.1730temp 137.3	2262.42	7.1800	2262.38

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7.1900	2262.30	7.2000	2262.34	7.2030	2262.20
7.2130	2262.24	7.2200temp 137.3	2262.33	7.2230	2262.16
7.2330	2262.13	7.2430	2262.09	7.2500	2262.07
7.2600	2262.07	7.2700	2262.03	7.2700temp 137.3	2262.04
7.2800	2262.03	7.2900	2262.02	7.2930	2262.04
7.3030	2262.05	7.3130	2262.07	7.3200	2262.07
7.3230	2262.07	7.3330	2262.09	7.3400	2262.07
7.3500	2262.21	7.3530	2262.34	7.3630	2262.36
7.3700temp 137.1	2262.47	7.3730	2262.44	7.3830	2262.45
7.3930	2262.49	7.4000	2262.40	7.4100	2262.50

